

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS OF OPERATOR

P.O. Box 1446 Roosevelt, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

NW/NW 558.6' FNL & 643.2' FWL

At proposed prod. zone 170

179

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

9.2 miles south of Myton, UT

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

558.6'

16. NO. OF ACRES IN LEASE

1968.01

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1325.8'

19. PROPOSED DEPTH

6500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5377.5' GR

22. APPROX. DATE WORK WILL START\*

2nd Quarter 1996

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	300'	120 sx Class G+2% CaCl+2% Gel
7 7/8	5 1/2	15.5#	TD	400 sx Hilift followed by 330 sx Class G w/ 10% CaCl

The actual cement volumes will be calculated off of the open hole logs, plus  
15% excess.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Brad Mecham

TITLE Operations Manager

DATE 3/6/96

(This space for Federal or State office use)

PERMIT NO. 43-013-31621

APPROVAL DATE

APPROVED BY Matthew

TITLE Petroleum Engineer

DATE 4/8/96

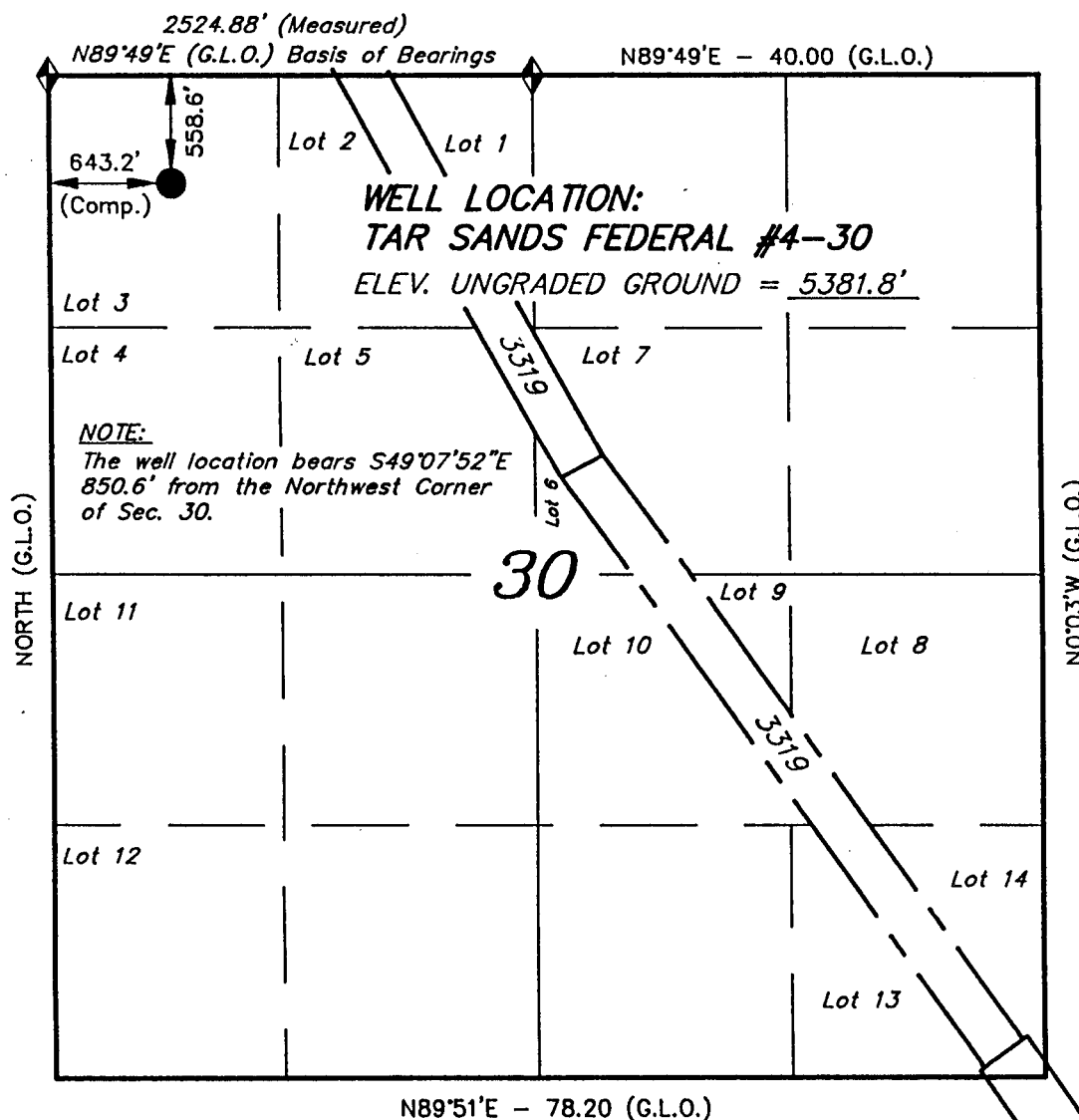
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

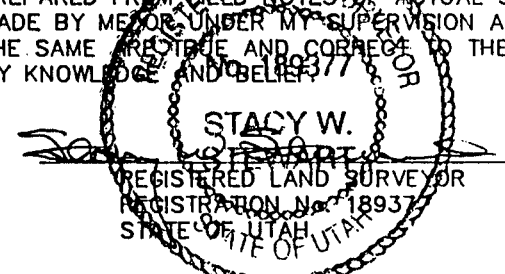
**T8S, R17E, S.L.B.&M.**

**INLAND PRODUCTION COMPANY**

WELL LOCATION, TAR SANDS FEDERAL  
#4-30, LOCATED AS SHOWN IN LOT 3 OF  
SECTION 30, T8S, R17E, S.L.B.&M.  
DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF.



◆ = SECTION CORNERS LOCATED  
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**TRI STATE LAND SURVEYING & CONSULTING**  
38 WEST 100 NORTH - VERNAL, UTAH 84078  
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: S.S. D.S.
DATE: 3-1-96	WEATHER: WINDY & COLD
NOTES:	FILE #

**A CULTURAL RESOURCES SURVEY OF  
TAR SANDS FEDERAL WELLS #4-30 AND #5-30, DUCHESNE COUNTY, UTAH**

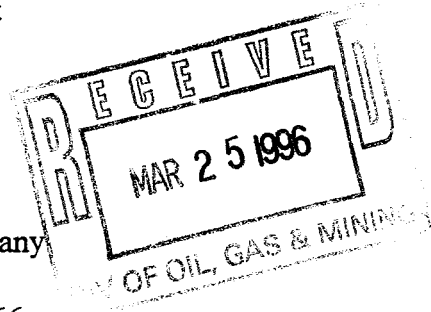
*12-013-31621*

by

Heather M. Weymouth  
Senior Archaeologist

Prepared for:

Inland Production Company  
P.O. Box 1446  
Roosevelt, Utah 84066



Prepared by:

Sagebrush Archaeological Consultants, L.L.C.  
3670 Quincy Avenue, Suite 203  
Ogden, Utah 84403

Under Authority of Cultural Resources Use Permit No. 95UT54630

and

Under Authority of Utah State Antiquities Permit No. U-96-SJ-0117b

Archaeological Report No. 853-01

March 11, 1996

## INTRODUCTION

In February 1996, Inland Production Company (Inland) of Roosevelt, Utah requested that Sagebrush Archaeological Consultants, L.L.C. (Sagebrush) conduct a cultural resources inventory of Inland's Tar Sands Federal wells #4-30 (558.6' FNL 643.2' FWL) and #5-30 (1884.4' FNL 631.4' FWL) located on lands controlled by the Bureau of Land Management (BLM) in Duchesne County, Utah (Figure 1).

The proposed wells are located in T. 8S., R. 17E., S. 30 on USGS 7.5' Quadrangle Myton SE, Utah (1964). The project was carried out by Heather M. Weymouth and Lynita S. Langley on March 5, 1996 under authority of Cultural Resources Use Permit No. 95UT54630 and Utah State Antiquities Permit No. U-96-SJ-0117b.

A file search for previously recorded cultural resource sites and paleontological localities located near the current project area was conducted by Heather M. Weymouth and Lynita S. Langley on February 23, 1996 at the BLM, Vernal District Office to determine if any cultural resource projects had been conducted or sites recorded in or near the current project area. An additional file search was conducted by Michael R. Polk at the Division of State History, Utah State Historic Preservation Office, Salt Lake City on February 21, 1996.

More than 30 previous cultural resources projects have been conducted in the area of the current project. Due to the large number of projects conducted in this area, individual project descriptions will not be listed. However, five cultural resources sites and three paleontological localities are listed as being located near the current project area. Following is a brief description of these sites and localities:

### Cultural Resource Sites

**Site 42Dc557.** This site, located in a wide drainage at the base of a rock face, is a small historic trash scatter. This site was recommended NOT eligible to the National Register of Historic Places (NRHP).

**Site 42Dc854.** This site is a large prehistoric campsite located in a dunal area. This site consists primarily of a large (500-plus flakes) lithic scatter. Primary flakes are dominant with secondary common, tertiary flakes, shatter and cores present but rare. Fire-cracked rock (FCR) was scattered through the site in eroded areas. No particular FCR configurations were noted possibly due to the deflated nature of portions of the site. Seven crude bifaces and two possible groundstone fragments (one a possible mano fragment) were also located at this site. This site was recommended ELIGIBLE to the NRHP.



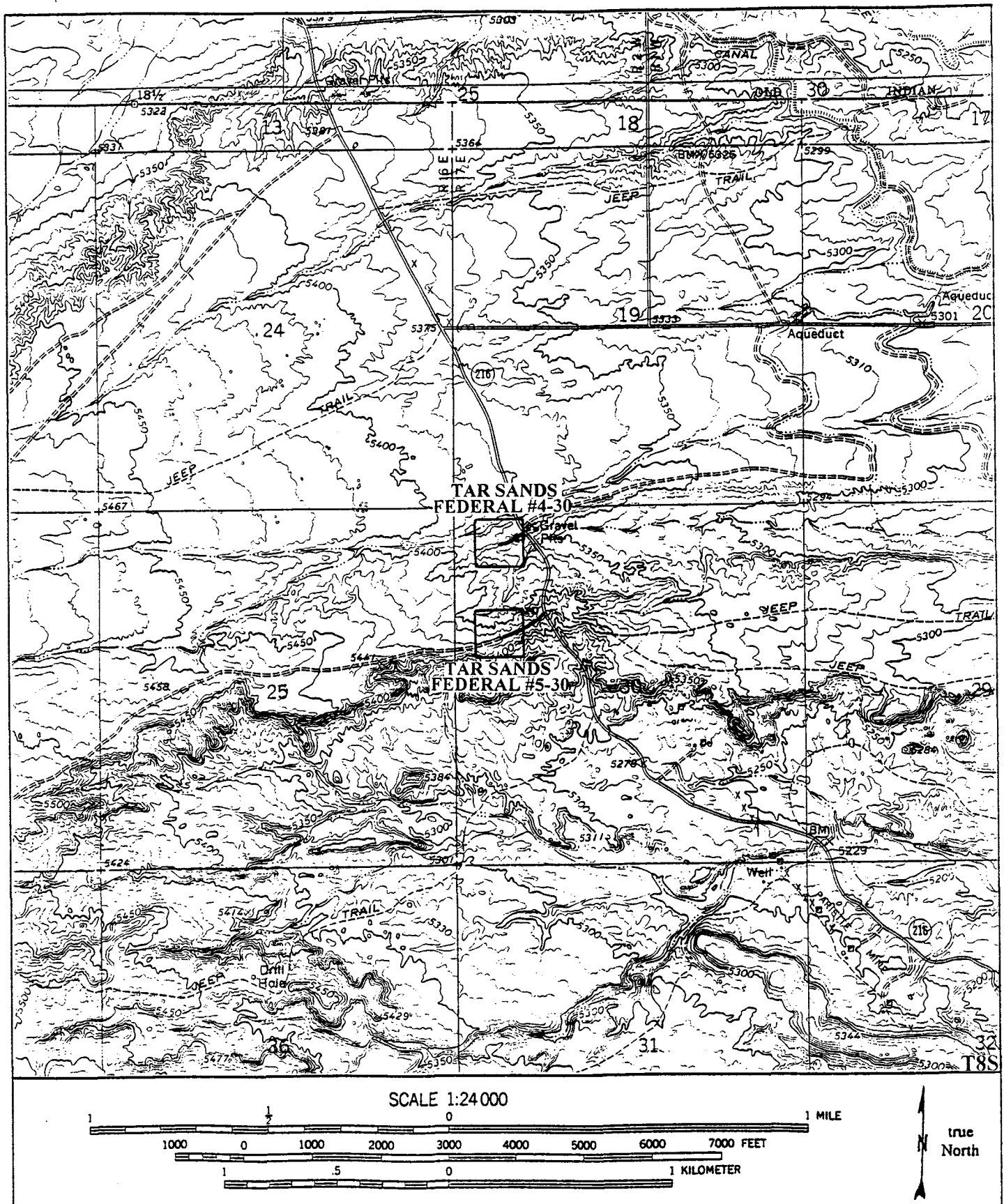


Figure 1. Location of Inland Resources Corporation's Tar Sands Federal Wells #4-30 and #5-30. Taken from USGS 7.5' Quadrangle Myton SE, Utah (1964).

**Site 42Dc908.** This site consists of a large lithic scatter and is located on a gently sloping bench above a large drainage and below a small knoll. Tools located at the site include sixteen bifacially worked tools and two cores. No diagnostic tools or features were noted. This site was recommended ELIGIBLE to the NRHP.

**Site 42Dc909.** This site, located on a sandy bluff flanked by three drainages, consists of a large and sparse lithic scatter. Artifacts noted include approximately 150 lithic flakes, three bifaces and a drill. No features and no diagnostic tools were noted. This site was recommended ELIGIBLE to the NRHP.

**Site 42Dc937.** This site, located at the terminus of a gravel-covered sand bar between two ephemeral stream channels, is a sparse lithic scatter of low grade chert. No diagnostic artifacts nor features are present at the site. This site was recommended NOT eligible to the NRHP.

### **Paleontological Localities**

**Locality 42Dc103p.** This locality, situated in the NW $\frac{1}{4}$ SE $\frac{1}{4}$  of Sec. 25, consists of plant specimens and a possible fish tail fossil found in an outcropping of sandstone in the Uinta Formation. This locality is considered IMPORTANT.

**Locality 42Dc224v.** This locality consists of several fossilized turtle shells eroding out of the portion of Uinta Formation exposed along the south side of well pad #15-36. Fragments of what appear to be "a small fossil lizard jaw". This locality is considered SIGNIFICANT.

**Locality 42Dc225v.** This locality consists of fragmented pieces of turtle shell scattered about the southwest portion of well #10-36. This material may have been transported by water action to this location from the outcrop immediately to the south. Additionally, a number of turtle shell fragments were found around the hill northeast of the well pad. This locality is considered IMPORTANT.

In addition to these searches, the NRHP was consulted prior to conducting the survey. No NRHP listed or determined eligible sites were found to be in the vicinity of the current project area.

## ENVIRONMENT

The project area lies in dissected tablelands south of Pleasant Valley. The elevation of the project area ranges from approximately 5350 to 5420 feet a.s.l. Sediments consist of tan to light brown sandy loam with occasional sandstone outcroppings and angular fragments of sandstone, limestone and gilsonite visible on the surface. Vegetation in the survey area consists of shadscale community species. Noted species include winterfat, cheat grass, four-wing salt brush, shadscale, sagebrush, prickly pear cactus, buckwheat, and bunch grass. There are no permanent water sources in the immediate project area. However, many seasonally flowing drainages and washes are present in the general vicinity. These seasonal water sources were likely the primary sources of water in this area historically. Natural disturbance in the area is primarily in the form of aeolian movement of sand and some water erosion. Cultural disturbance includes grazing, pre-existing well pad locations and a number of access roads leading to the well locations.

## METHODOLOGY

The project area consists of two 40,469 m<sup>2</sup> (10 acre) parcels of land 201-by-201 m (660-by-660 ft) centered on the proposed well heads. Both proposed well pads are located along previously surveyed access road corridors. The well pads were inventoried by Heather M. Weymouth and Lynita S. Langley walking parallel transects spaced no more than 15 meters apart. The area surveyed during this project totaled 80,938 m<sup>2</sup> (20 acres)

## RESULTS

No cultural resources sites nor paleontological localities were found as a result of this inventory.

## RECOMMENDATIONS

Since there were no cultural resources nor paleontological resources found, cultural and paleontological clearance is recommended for the proposed project.

This investigation was conducted with techniques which are considered to be adequate for evaluating cultural and paleontological resources which could be adversely affected by the project. However, should such resources be discovered during construction, a report should be made immediately to the BLM District Archaeologist, Vernal District Office, Vernal, Utah.

**TAR SANDS FEDERAL #4-30  
NW/NW SEC. 30, T8S, R17E  
DUCHESNE COUNTY, UTAH  
U-74869**

**HAZARDOUS MATERIAL DECLARATION**

INLAND PRODUCTION COMPANY guarantees that during the drilling & completion of the above referenced well, we will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986.

INLAND PRODUCTION COMPANY guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

JOHNSON WATER DISTRICT  
R.R. 3 BOX 3188  
ROOSEVELT, UT 84066  
TELEPHONE (801) 722-2620

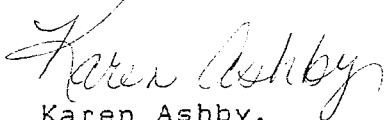
March 4, 1996

TO WHOM IT MAY CONCERN:

Inland Production Company has purchased a 3 inch water connection with Johnson Water District to supply Monument Butte oilfield.

Johnson Water District has given permission to Inland Production Company to use water from our system for the purpose of drilling and completing the Tar Sand Federal 4-30, and 5-30.

Sincerely,

  
Karen Ashby,  
Secretary

**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #4-30  
NW/NW SEC. 30, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**TEN POINT WELL PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' - 3030'
Green River	3030'
Wasatch	6500'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 3030' - 6400' - Oil

**4. PROPOSED CASING PROGRAM**

8 5/8", J-55, 24# w/ ST&C collars; set at 300' (New)  
5 1/2", J-55, 15.5# w/ LT&C collars; set at TD (New)

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operators minimum specifications for pressure control equipment are as follows:

A 8" Series 900 Hydril Bag type BOP and a 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOPS's will be checked daily.

(See Exhibit F)

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

It is proposed that the well be drilled with fresh water through the Uinta Formation. From the top of the Green River Formation at 3000'  $\pm$  to TD, a fresh water/polymer system will be utilized. If necessary to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. Typically, this fresh water/polymer system will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride or chromates will be utilized in the fluid system.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

No drill stem testing has been scheduled for this well. It is anticipated at this time that the logging will consist of a Dual Induction Laterolog, Compensated Neutron-Formation Density Log. Logs will run from TD to 3500'. The cement bond log will be run from PBTD to cement top. The use of mud loggers to be determined at a later date.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence in June, 1996 and take approximately eight days to drill.



**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #4-30  
NW/NW SECTION 30, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**THIRTEEN POINT WELL PROGRAM**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Tar Sands Federal #4-30 located in the NW 1/4 NW 1/4 Section 30, T8S, R17E, S.L.B. & M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.5 miles  $\pm$  to the junction of this highway and Utah State Highway 53; proceed southerly along Utah State Highway 53 - 1.9 miles to its junction with Utah State Highway 216; proceed southerly along State Highway 216 - 5.7 miles to its junction with the beginning of the proposed access road to be discussed in item #2.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County Crews.

The aforementioned dirt oilfield service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads required for access during the drilling, completion and production phase will be maintained at the standards required by the BLM or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B".

The planned access road leaves the existing location described in Item #1 in the NW1/4 NW 1/4 Section 30, T8S, R17E, S.L.B. & M., and proceeds in a north/easterly direction approximately 400'  $\pm$  to the proposed location site.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. **LOCATION OF EXISTING WELLS**

There are five (5) producing, Inland Production wells, within a one (1) mile radius. See Exhibit "D".

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery the well pad will be surrounded by a dike of sufficient capacity to contain at minimum the entire contents of the largest tank within the facility battery.

Tank batteries will be built to BLM specification.

All permanent (on site for six (6) months or longer) structures constructed or installed (including pumping units) will be painted Desert Tan. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

At the present time, it is anticipated that the water for this well will be transported through a temporary surface pipeline from our pre-approved Inland Production Company fresh water supply line located at the Monument Butte Federal #5-35 (SW/NW Sec. 35, T8S, R16E) location as indicated on Topographic Map - Exhibit "C".

In the event this water source is not used an alternate source will be used and all the necessary arrangements will be made with the proper authorities.

6. **SOURCE OF CONSTRUCTION MATERIALS**

See Location Layout Sheet - Exhibit "E".

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet - Exhibit "E".

A small reserve pit will be constructed from native soil and clay materials. However, in a departure from conventional oilfield practice, the volume and duration of fluid occupying this pit will be minimal. By applying currently available technology, a water processing unit will be employed to continuously recycle the drilling fluid as it is used, returning the fluid component to the drilling rig's steel tanks. The reserve pit will primarily receive the processed drill cuttings (wet sand, shale & rock) removed from the wellbore. Any drilling fluids which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed by the water recycling unit and then returned to the steel tanks. Furthermore, all drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be utilized in the reserve pit.

Immediately upon first production all produced water will be confined in storage tanks. Inland requests temporary approval to transfer the produced water to Inland's nearby water flood supply for reinjection into the waterflood reservoirs via existing approved injection wells. Within 90 days of first production, a water analysis will be submitted to the Authorized Officer, along with an application for approval of this as a permanent disposal method.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet - Exhibit "E".

The reserve pit will be located on the north side between stakes 4 & 5.

There will be no flare pit on this location.

The stockpiled topsoil (first six (6) inches) will be stored on the east, between stakes 7 & 8.

Access to the well pad will be from the north corner between stakes 6 & 7.

The east corner will be rounded to avoid excess cut and fill.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) 39 inch net wire shall be used with at least one strand of barbed wire on top of the net.

- b) The net wire shall be not more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be cemented and/or braced in such a manner to keep tight at all times.
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

**10. PLANS FOR RESTORATION OF SURFACE**

**a) *Producing Location***

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. The reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

When the drilling and completion phase ends, reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer. The seed mixture will be per B.L.M. and stated in the conditions of approval.

**b) *Dry Hole Abandoned Location***

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the B.L.M. will attach the appropriate surface rehabilitation conditions of approval.

**11. SURFACE OWNERSHIP - Bureau Of Land Management**

12. OTHER ADDITIONAL INFORMATION

- a) Inland Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Inland is to immediately stop work that might further disturb such materials, and contact the Authorized Officer.
- b) Inland Production will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. On B.L.M. administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without B.L.M. authorization. However, if B.L.M. authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

The Cultural Resource Survey will be submitted, as soon as it becomes available.

*Additional Surface Stipulations*

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations. Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. Inland Production is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Inland Production Company or a contractor employed by Inland Production shall contact the B.L.M. office at (801) 789-1362, 48 hours prior to construction activities.

The B.L.M. office shall be notified upon site completion prior to moving on the drilling rig.

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Brad Mecham  
Address: P.O. Box 1446 Roosevelt, Utah 84066  
Telephone: (801) 722-5103

Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of Well #4-30 NW/NW Section 30, Township 8S, Range 17E: Lease #U-74869 ; Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

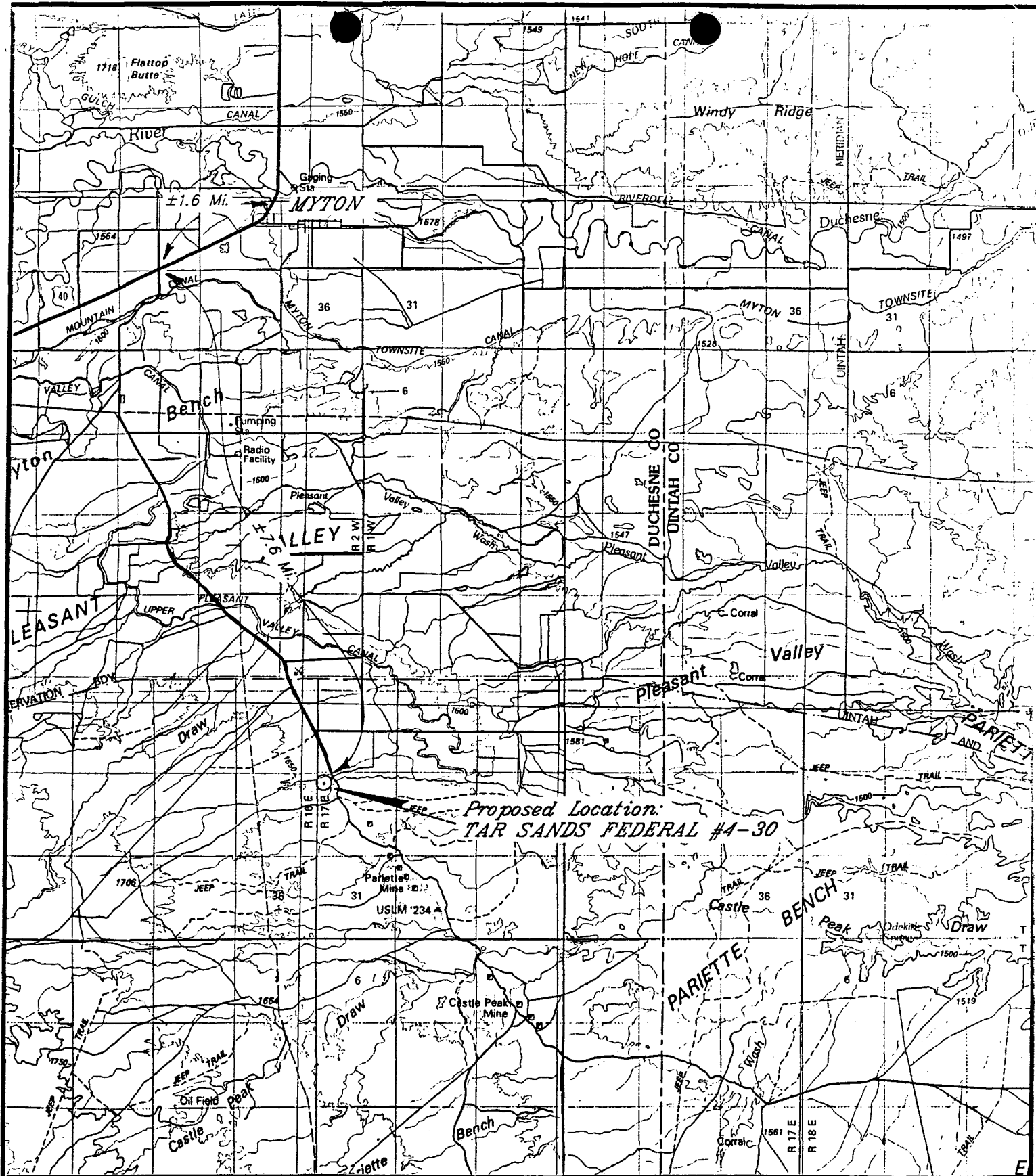
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

3-7-96

Date

Brad Mecham

Brad Mecham  
Operations Manager

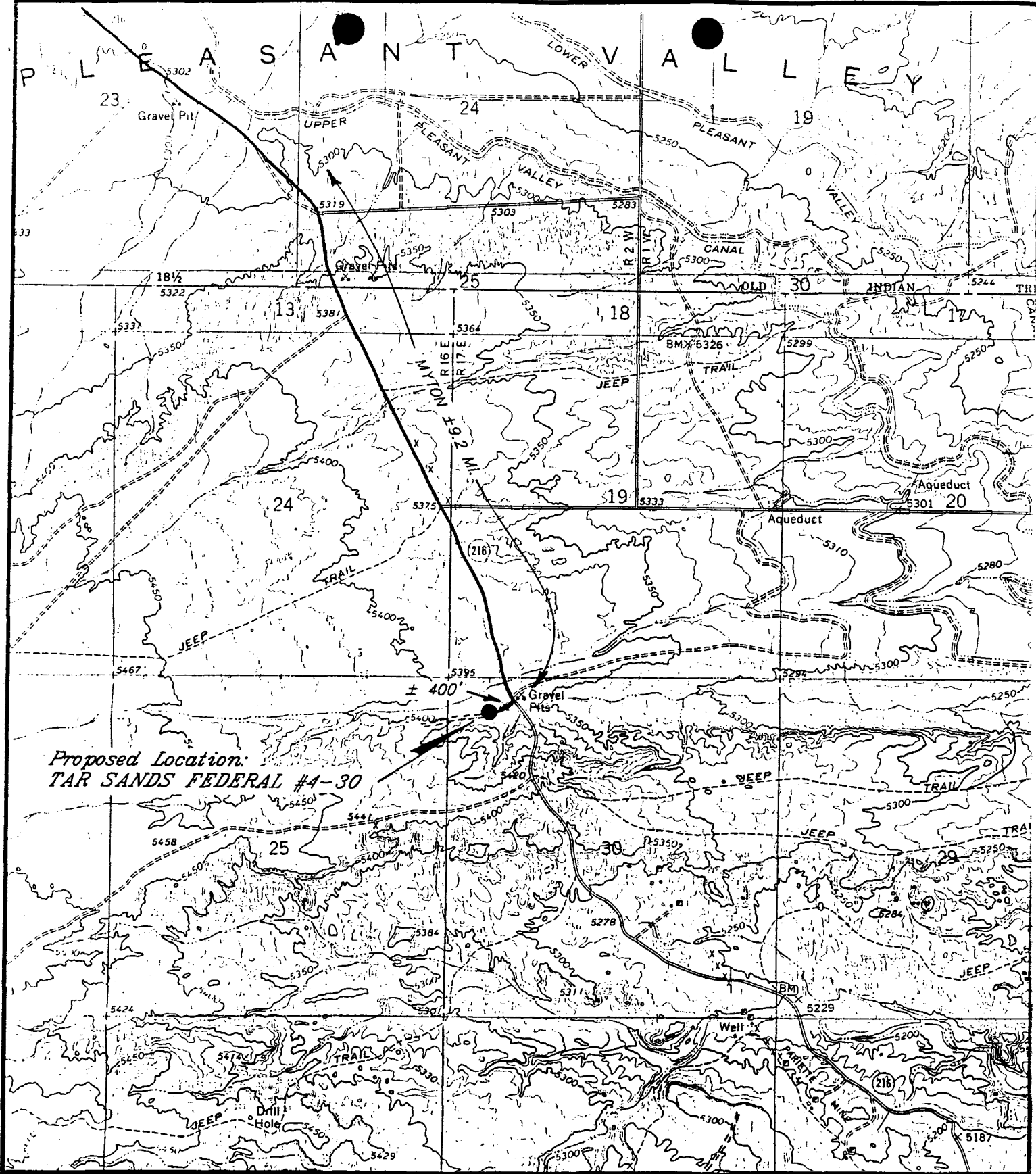


# **INLAND PRODUCTION COMPANY**

TAR SANDS FEDERAL #4-30  
 SEC. 30, T8S, R17E, S.L.B.&M.  
 TOPO "A"



**Tri State**  
 Land Surveying, Inc.  
 (801) 781-2501  
 38 WEST 100 NORTH VERNAL, UTAH 84078



**INLAND PRODUCTION COMPANY**

TAR SANDS FEDERAL #4-30  
SEC. 30, T8S, R17E, S.L.B.&M.  
TOPO "B"



SCALE: 1" = 2000'

**Tri State**  
Land Surveying, Inc.

(801) 781-2501

38 WEST 100 NORTH VERNAL, UTAH 84078



$R^2 \ddot{W}$ 

WATER SOURCE

# Lomax

## RIGHT-OF-WAY and ACCESS FOR FRESH WATER PIPELINE

**DUCHESNE CO., UTAH**

EXHIBIT C

**SCALE 1:24,000**

Date: 10/88 REVISED 3/89

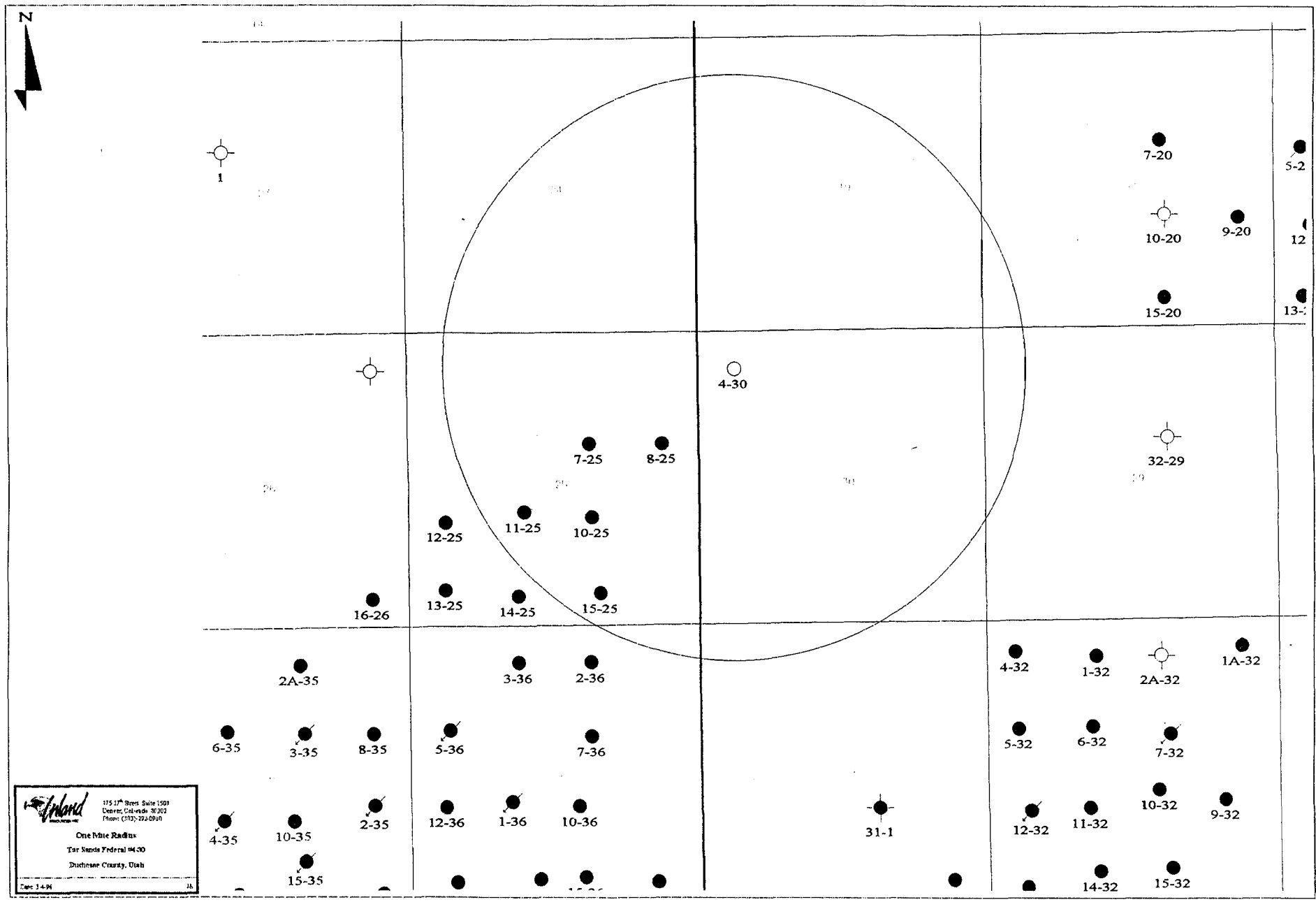
BY: D. TAFF

# PIPE LINE

**PUMP BLDG:**

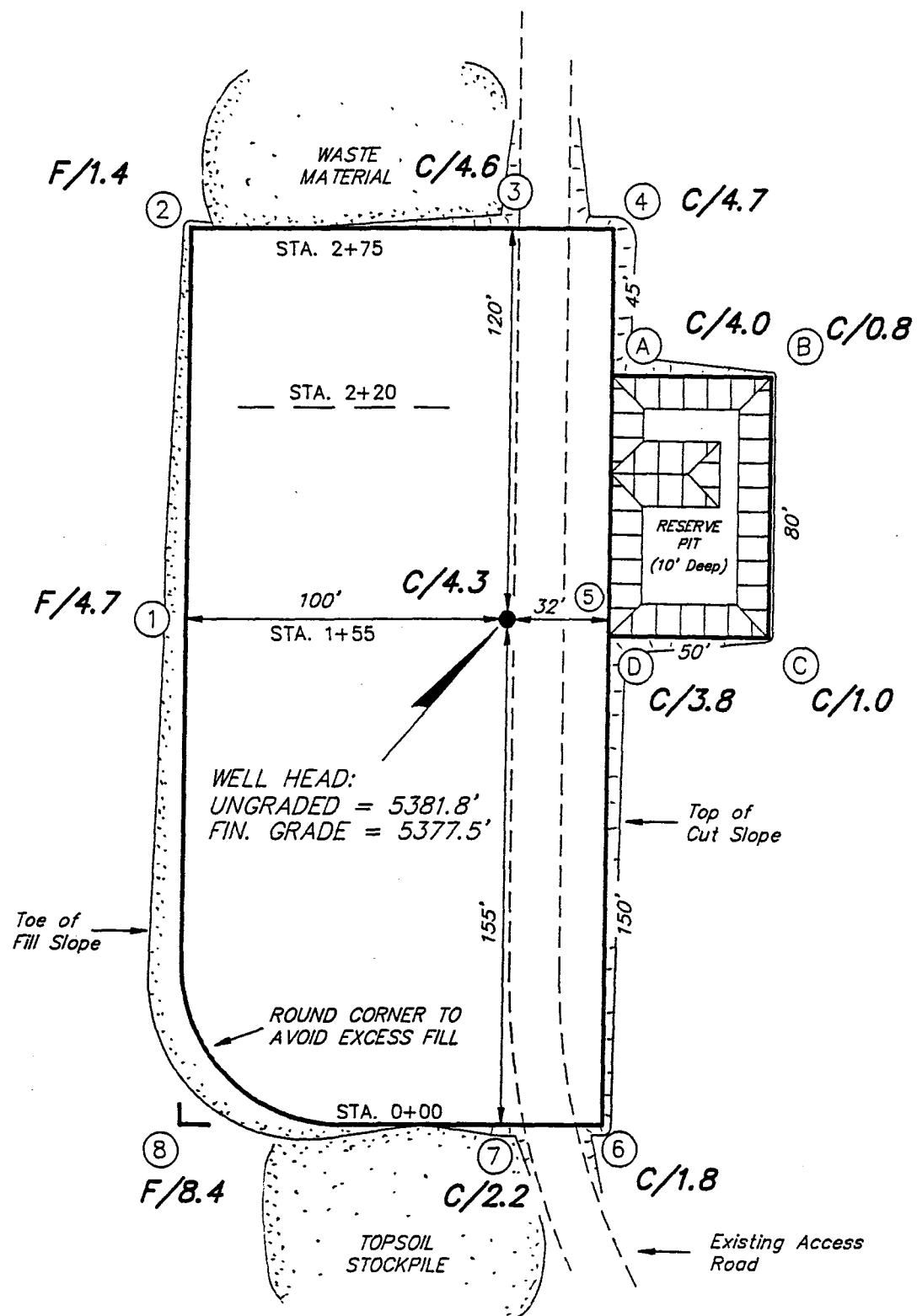
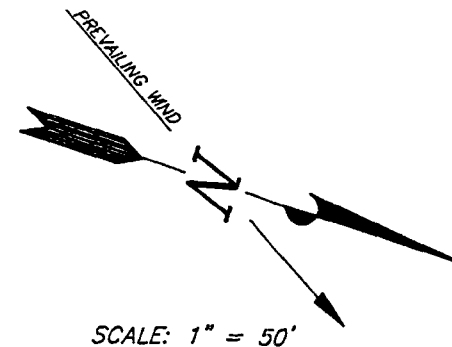
**R 16 E**

# EXHIBIT "D"



# INLAND PRODUCTION COMPANY

TAR SANDS FEDERAL #4-30  
SEC. 30, T8S, R17E, S.L.B.&M.

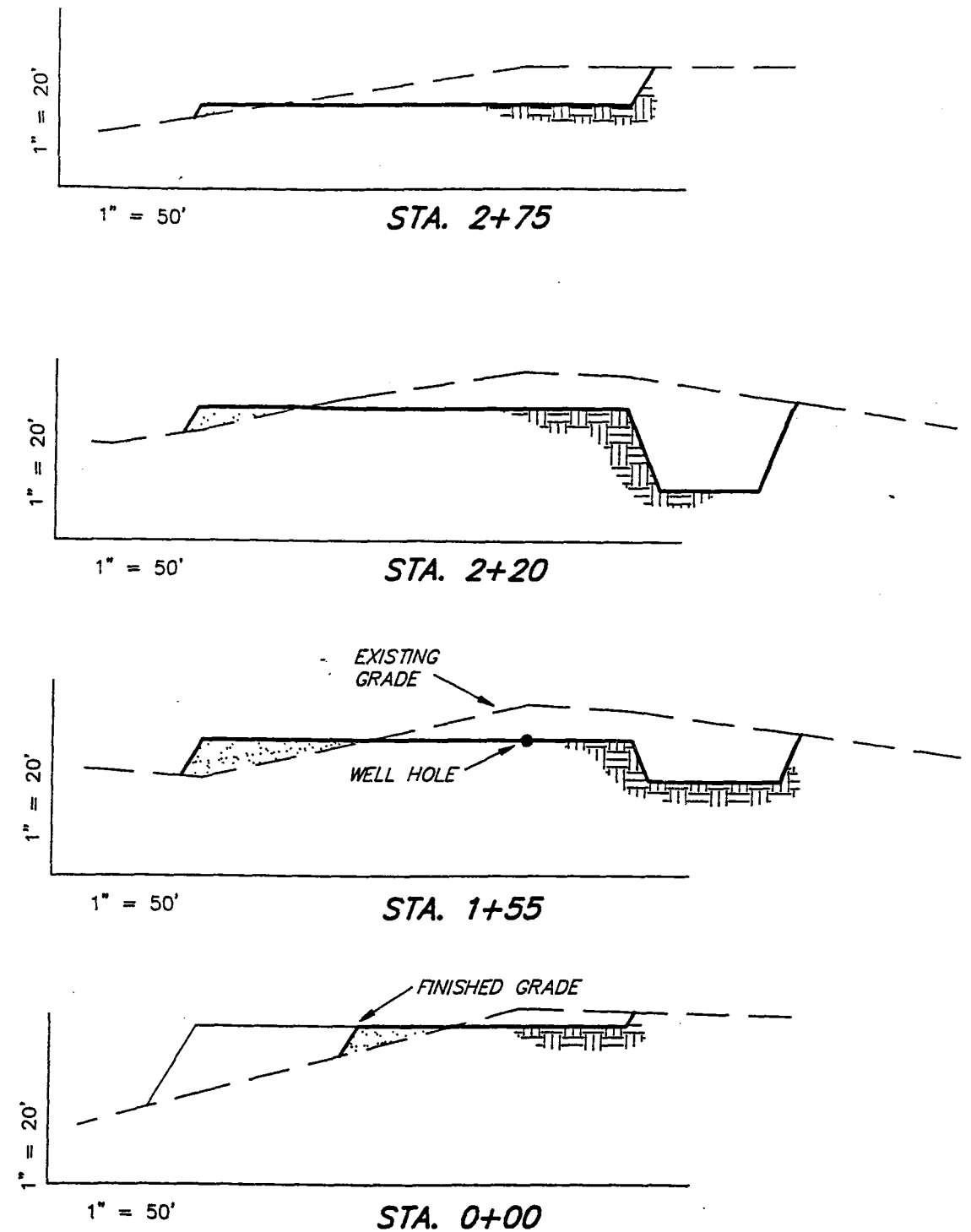


## REFERENCE POINTS

150' SOUTH = 5374.4'  
200' SOUTH = 5378.3'  
170' WEST = 5381.4'  
220' WEST = 5383.6'

## APPROXIMATE YARDAGES

CUT = 1,990 Cu. Yds.  
FILL = 1,990 Cu. Yds.  
PIT = 1,060 Cu. Yds.  
6" TOPSOIL = 750 Cu. Yds.



SURVEYED BY: S.S. D.S.

DRAWN BY: J.R.S.

DATE: 3-1-96

SCALE: 1" = 50'

FILE:

**Tri State**  
Land Surveying, Inc.

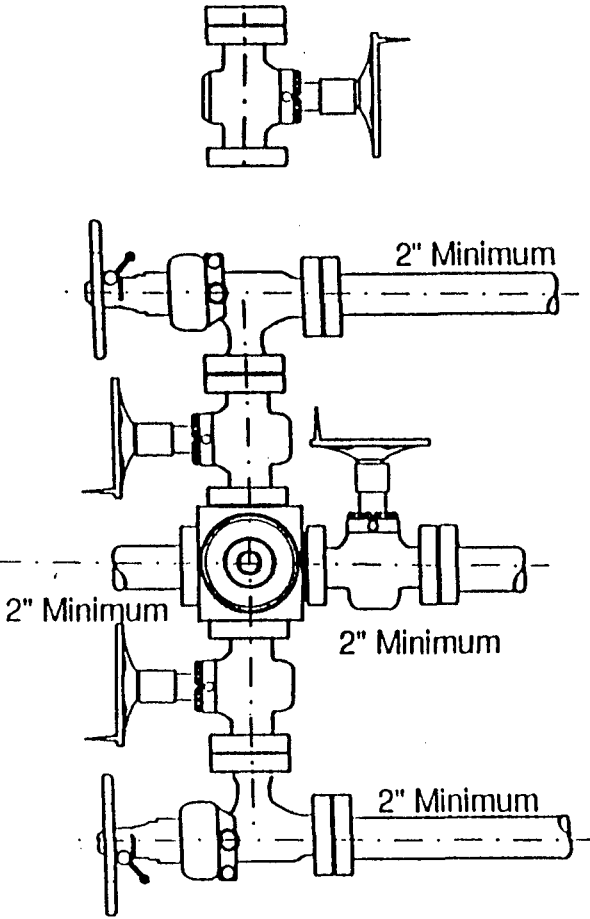
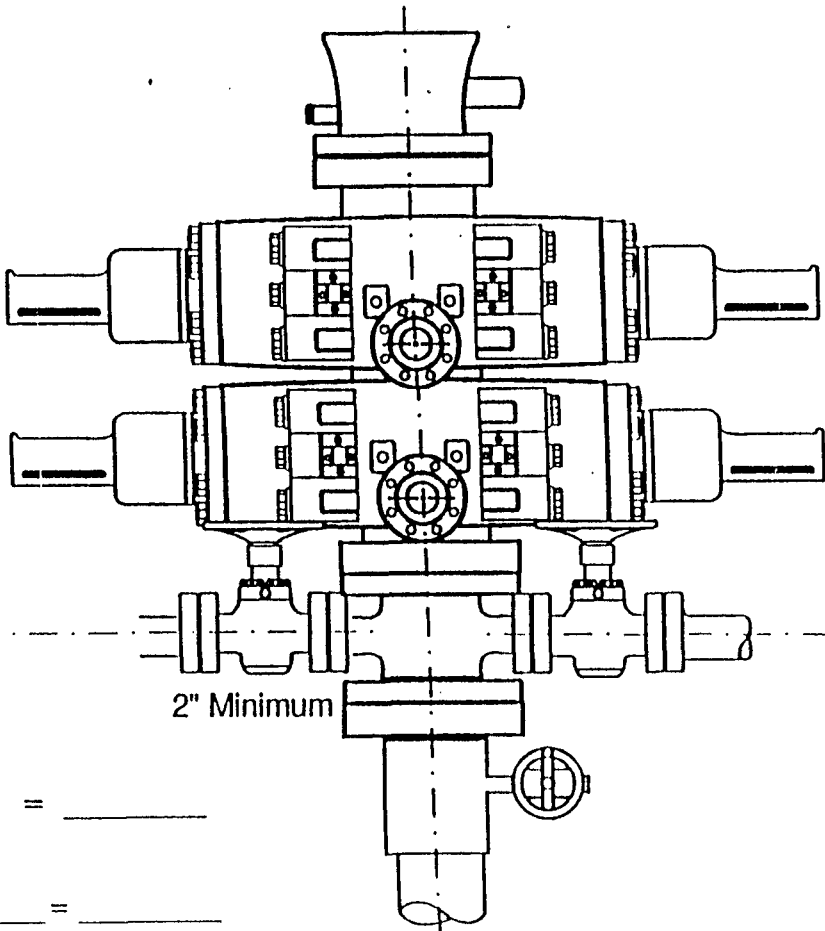
(801) 781-2501

38 WEST 100 NORTH VERNAL, UTAH 84078

# 2-M SYSTEM

EXHIBIT F

RAM TYPE B.O.P.  
Make:  
Size:  
Model:



GAL TO CLOSE  
Annular BOP = \_\_\_\_\_  
Ramtype BOP  
\_\_\_\_\_ Rams x \_\_\_\_\_ = \_\_\_\_\_  
= \_\_\_\_\_ Gal.  
\_\_\_\_\_ x 2 = \_\_\_\_\_ Total Gal.

Rounding off to the next higher  
increment of 10 gal. would require  
\_\_\_\_\_ Gal. (total fluid & nitro volume)

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/11/96

API NO. ASSIGNED: 43-013-31621

WELL NAME: TAR SANDS FEDERAL 4-30  
OPERATOR: INLAND PRODUCTION CO (N5160)

PROPOSED LOCATION:

NWNW 30 - T08S - R17E  
SURFACE: 0559-FNL-0643-FWL  
BOTTOM: 0559-FNL-0643-FWL  
DUCHESNE COUNTY  
UNDESIGNATED FIELD ( )

LEASE TYPE: FED  
LEASE NUMBER: U-74869

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Federal ☒ State ☐ Fee ☐  
(Number 4488944)  
☒ Potash (Y/N)  
☒ Oil shale (Y/N)  
☒ Water permit  
(Number WATER SUPPLY WELL 3-35)  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
☒ R649-3-2. General.  
\_\_\_ R649-3-3. Exception.  
\_\_\_ Drilling Unit.  
\_\_\_ Board Cause no: \_\_\_\_\_  
\_\_\_ Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

**STATE OF UTAH, DIV OF OIL, GAS & MINERALS**

<b>Operator: INLAND PRODUCTION CO</b>	<b>Well Name: TAR SANDS FED 4-30</b>
<b>Project ID: 43-013-31621</b>	<b>Location: SEC. 30 - T088 - R17E</b>

**Design Parameters:**

Mud weight ( 5.32 ppg) : 0.276 psi/ft  
 Shut in surface pressure : 1517 psi  
 Internal gradient (burst) : 0.043 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using air weight  
 Service rating is "Sweet"

**Design Factors:**

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)		Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	6,500	5.500	17.00	J-55	LT&C	6,500	4.767			
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)		Strgth (kips)	S.F.
1	1796	4910	2.734	1796	5320	2.96	110.50	247	2.24	J

Prepared by : MATTHEWS, Salt Lake City, Utah  
 Date : 04-08-1996  
 Remarks :

Minimum segment length for the 6,500 foot well is 1,500 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.75, and a mean gas  
 temperature of 119°F (Surface 74°F , BHT 165°F & temp. gradient 1.400°/100 ft.)  
 String type: Production  
 The mud gradient and bottom hole pressures (for burst) are 0.276 psi/ft and  
 1,796 psi, respectively.

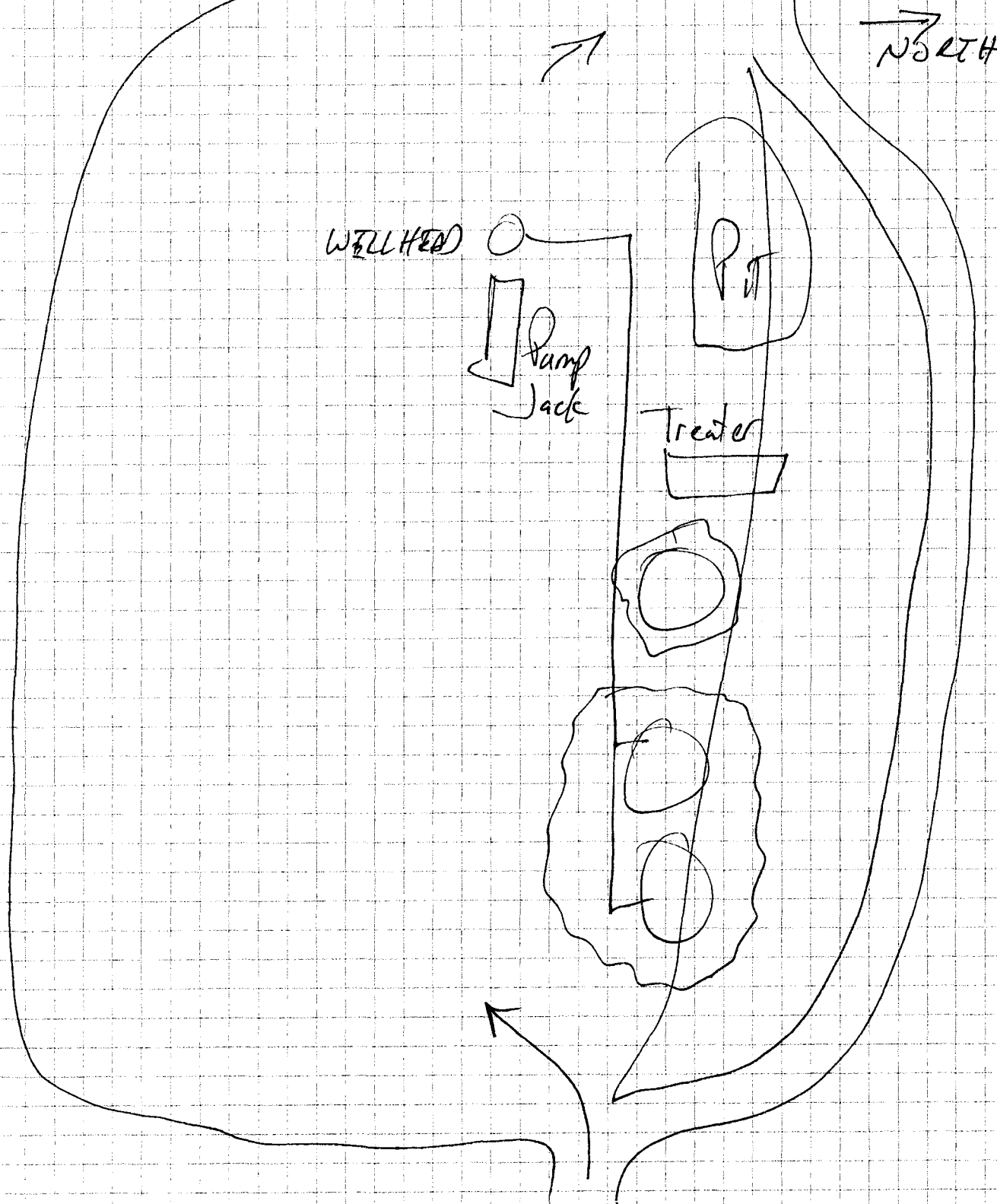
**NOTE:** The design factors used in this casing string design are as shown above. As a general  
 guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with  
 evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension,  
 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension  
 was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility  
 for use of this design will be that of the purchaser.  
 Costs for this design are based on a 1987 pricing model. (Version 1.07)

Inland Production  
Tar Sands Federal #4-30  
Sec 30; T85; R17E

4-74869

POW

43-013-31621





State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

April 8, 1996

Inland Production Company  
P.O. Box 1446  
Roosevelt, Utah 84066

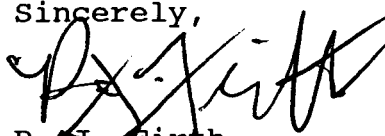
Re: Tar Sands Federal #4-30 Well, 559' FNL, 643' FWL, NW NW,  
Sec. 30, T. 8 S., R. 17 E., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31621.

Sincerely,



R. J. Firth  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

WAPD





**Operator:** Inland Production Company  
**Well Name & Number:** Tar Sands Federal #4-30  
**API Number:** 43-013-31621  
**Lease:** U-74869  
**Location:** NW NW **Sec.** 30 **T.** 8 S. **R.** 17 E.

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

**2. Notification Requirements**

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

**3. Reporting Requirements**

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS OF OPERATOR

P.O. Box 1446 Roosevelt, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

NW/NW 558.6' FNL & 643.2' FWL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

9.2 miles south of Myton, UT

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

558.6'

16. NO. OF ACRES IN LEASE

1968.01

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1325.8'

19. PROPOSED DEPTH

6500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5377.5' GR

22. APPROX. DATE WORK WILL START\*

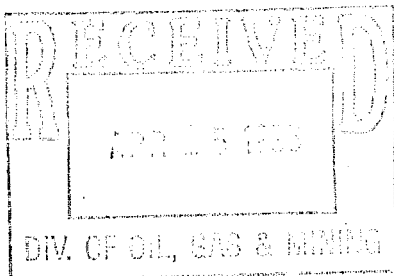
2nd Quarter 1996

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	300'	120 sx Class G+2% CaCl+2% Gel
7 7/8	5 1/2	15.5#	TD	400 sx Hilift followed by
				330 sx Class G w/ 10% CaCl

The actual cement volumes will be calculated off of the open hole logs, plus  
15% excess.



RECEIVED  
MAR 11 1996

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Brad Mechem

TITLE Operations Manager

DATE 3/6/96

(This space for Federal or State office use)

PERMIT NO. 43-013-31621

APPROVAL DATE

ASSISTANT DISTRICT  
MANAGER MINERALS

APR 11 1996

APPROVED BY [Signature]  
CONDITIONS OF APPROVAL, IF ANY:

DATE

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPY

\*See Instructions On Reverse Side

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Tar Sands Federal 4-30

API Number: 43-013-31621

Lease Number: U - 74869

Location: NWNW Sec. 30 T. 8S R. 17E

**NOTIFICATION REQUIREMENTS**

- |                                    |   |   |
|------------------------------------|---|---|
| Location Construction              | - | at least forty-eight (48) hours prior to construction of location and access roads.   |
| Location Completion                | - | prior to moving on the drilling rig.  |
| Spud Notice                        | - | at least twenty-four (24) hours prior to spudding the well.   |
| Casing String and<br>Cementing     | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings.   |
| BOP and Related<br>Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests.   |
| First Production<br>Notice         | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale zone, identified at 2525 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to  $\pm$  2,325 ft., and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office. A Dual Lateral log will be run from TD to the base of the surface casing. A Sonic log will be run from TD to a minimum of 200 ft above the top of the Mahogany oil shale.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted on initial meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed.

All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman                      (801) 789-7077  
Petroleum Engineer

Wayne P. Bankert              (801) 789-4170  
Petroleum Engineer

BLM FAX Machine              (801) 781-4410



## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids

**CONDITIONS OF APPROVAL**  
**FOR THE SURFACE USE PROGRAM OF THE**  
**APPLICATION FOR PERMIT TO DRILL**

-Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

-All vehicle travel will be confined to existing access road rights-of-way.

-Topsoil should be windrowed on the south side of the location instead on being piled as shown on the well layout plate.

- The pit spoils should be piled around the reserve pit instead of as shown on the cut sheet.

-No surface disturbing activities, construction, or drilling operations, including the initial completion activities, are to occur on the well, access road, or location from March 15 through August 15. This restriction is to protect Mountain Plovers and Burrowing Owls located in the surrounding area. The restriction does not apply to maintenance and operation of existing wells and facilities. Waivers, exceptions, or modifications to this Condition of Approval may be specifically approved in writing by the authorized officer of the Bureau of Land Management if either the resource values change or the lessee/operator demonstrates that adverse impacts can be mitigated.

-An erosion dam should be constructed above the SW corner of the pad to protect the corner of the well pad.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND

Well Name: TAR SAND FEDERAL 4-30

Api No. 43-013-31621

Section 30 Township 8S Range 17E County DUCHESNE

Drilling Contractor

Rig #:

SPUDDED:

Date: 5/2/96

Time:

How: DRY HOLE

Drilling will commence:

Reported by: D. INGRAM-DOGM

Telephone #:

Date: 5/6/96 Signed: JLT

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR INLAND PRODUCTION COMPANY  
ADDRESS P.O. BOX 1446  
ROOSEVELT, UT 84066

OPERATOR ACCT. NO. H 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11916	43-013-31621	TAR SANDS FEDERAL #4-30	NWNW	30	8S	17E	Duchesne	5/2/96	5/2/96
WELL 1 COMMENTS: <i>Entity added 5-10-96. Lee</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Signature Cheryl Cameron

Regulatory Compliance Spec 5/6/9  
Title \_\_\_\_\_ Date \_\_\_\_\_

Phone No. (801) 722-5103

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**Inland Production Company**

3. Address and Telephone No.

**P.O. Box 1446 Roosevelt, Utah 84066 (801)722-5103**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**NW/NW 643.2' FWL & 558.6' FNL**

**Sec. 30, T8S, R17E**

5. Lease Designation and Serial No.

**U-74869**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**Tar Sands Federal #4-30**

9. API Well No.

**43-013-31621**

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**Duchesne County, Utah**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Spud Notification**

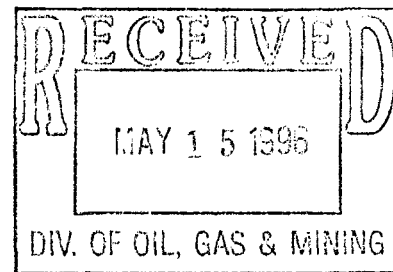
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Drilled 12 1/4" hole w/ Leon Ross Rathole Rig to 303'.  
Set 286.84' of 8 5/8" 24# ST&C csg. Cmt w/ 120 sx  
prem plus w/ 2% CC, 2% Gel & 1/4# /sk flocele.

SPUD 5/2/96



14. I hereby certify that the foregoing is true and correct

Signed

**Cheryl Cameron**

Title **Regulatory Compliance Specialist** Date **5/6/96**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**Inland Production Company**

3. Address and Telephone No.

**P.O. Box 1446 Roosevelt, Utah 84066 (801)722-5103**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**NW/NW 643.2' FWL & 558.6' FNL  
Sec. 30, T8S, R17E**

5. Lease Designation and Serial No.

**U-74869**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**Tar Sands Federal 4-30**

9. API Well No.

**43-013-31621**

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**Duchesne County, Utah**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

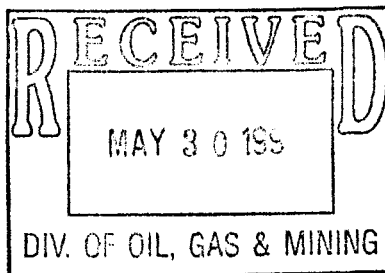
- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Status
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR WEEK OF 5/17/96 - 5/22/96:**

**Drilled 7 7/8" hole w/ Kenting Apollo, Rig #59, from 303'-6250'. Set 6251.57'KB of 5 1/2" 15.5# LT&C J-55 csg. Cmt w/ 290 sx Hifill & 360 Thixo w/ 10% Calseal.**



14. I hereby certify that the foregoing is true and correct

Signed Cheryl Cameron

Title Regulatory Compliance Specialist Date 5/28/96

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_ Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

**U-74869**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**Tar Sands Federal #4-30**

9. API Well No.

**43-013-31621**

10. Field and Pool, or Expiratory Area

11. County or Parish, State

**Duchesne County, Utah**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**Inland Production Company**

3. Address and Telephone No.

**P.O. Box 1446 Roosevelt, Utah 84066 (801)722-5103**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**NW/NW 643.2' FWL & 558.6' FNL  
Sec. 30, T8S, R17E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Weekly Status**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

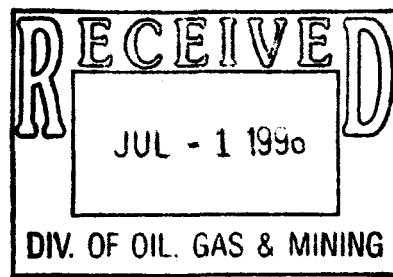
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR WEEK OF 6/18/96 - 6/24/96:**

**Perf D sd @ 5160'-5172'**

**Perf GB-4 sd @ 4629'-4632', 4635'-4644' & 4645'-4650'**



14. I hereby certify that the foregoing is true and correct

Signed

**Cheryl Cameron**

Title **Regulatory Compliance Specialist**

Date **6/26/96**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

P.O. Box 1446 Roosevelt, Utah 84066 (801)722-5103

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW/NW 643.2' FWL & 558.6' FNL  
Sec. 30, T8S, R17E

5. Lease Designation and Serial No.  
**U-74869**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**Tar Sands Federal #4-30**

9. API Well No.

**43-013-31621**

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**Duchesne County, Utah**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
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☒ Other **Weekly Status**

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
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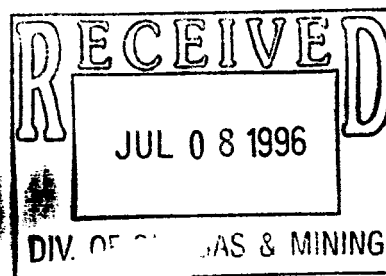
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13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR WEEK OF 6/21/96 - 6/24/96:**

**RIH w/ production string**

**ON PRODUCTION 6/26/96**



14. I hereby certify that the foregoing is true and correct

Signed Cheryl Cameron Title Regulatory Compliance Specialist Date 7/2/96

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

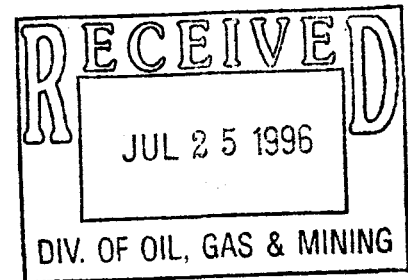
**\*See Instruction on Reverse Side**





July 22, 1996

Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078



ATTENTION: *Ed Forsman*

RE: *Tar Sands Federal #4-30*  
*NW/NW Sec. 30, T8S, R17E*

*Tar Sands Federal #8-31*  
*SE/NE Sec. 31, T8S, R17E*

*Monument Butte Federal #6-1*  
*SE/NW Sec. 1, T9S, R16E*

Dear Ed,

Enclosed are the original and two copies (each) of the Well Completion or Recompletion Report and Log, on the above referenced locations. Included are the CBL, CNL and the DLL for the Tar Sands wells and the CBL for the Monument Butte well. The CNL and DLL for the 6-1 have been submitted; see enclosed letter copy dated June 25, 1995. Copies will also be submitted to the State of Utah.

If additional information is needed, please contact me or Cheryl, at (801) 722-5103, in the Roosevelt office.

Sincerely,

Cori Brown  
Secretary

cc: Attn: *Frank Matthews*  
*State of Utah*  
*Division of Oil, Gas & Mining*  
*P.O. Box 145801*  
*Salt Lake City, Utah 84114-5801*

/cb  
Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DATE

(See other in-  
structions on  
back of form)FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.

U-74869

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Tar Sands Federal #4-30

9. API WELL NO.

43-013-31621

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY  
OR AREA

Sec. 30, T8S, R17E

12. COUNTY OR  
PARISH

Duchesne

13. STATE

UT

1a. TYPE OF WELL:

OIL

WELL

☒

GAS

WELL

☐

DRY

☐

Other

JUL 25 1996

b. TYPE OF COMPLETION:

NEW

WELL

☒

WORK

OVER

☐

DEEP

EN

☐

PLUG

BACK

☐

DIFF.

RENR.

☐

Other

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS AND TELEPHONE NO.

P.O. Box 1446 Roosevelt, UT 84066 (801) 722-5103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface NW/NW

At top prod. interval reported below 643.2' FWL &amp; 558.6' FNL

At total depth

14. PERMIT NO.

UT-080-6M-077

DATE ISSUED

4/11/96

15. DATE SPUDDED

5/2/96

16. DATE T.D. REACHED

5/21/96

17. DATE COMPL. (Ready to prod.)

6/26/96

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5377.5' GR

19. ELEV. CASINGHEAD

---

20. TOTAL DEPTH, MD &amp; TVD

6250'

21. PLUG, BACK T.D., MD &amp; TVD

6250'

22. IF MULTIPLE COMPL.,

HOW MANY\*

23. INTERVALS

DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* Green River

5160'-5172', 4629'-4632', 4635'-4644', 4645'-4650'

25. WAS DIRECTIONAL

SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

CBL, CNL, DLL 7-25-96

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	285.69'	12 1/4	120 sx prem+w/ 2% Gel+2% CC+1#/sk flocele	
5 1/2	15.5#	6251.57' KB	7 7/8	290 sx Hifill mixed	
				360 sx Thixo w/ 10% Calseal mixed	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

D sd 5160'-5172'  
GB-4 sd 4629'-4632', 4635'-4644'  
4645'-4650'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5160'-5172'	94,400# 20/40 in 470 bbls gel
4629'-4632' &	95,400# 20/40 in 491 bbls gel
4635'-4644' &	
4645'-4650'	

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
6/26/96		Pumping - 2½" X 1½" X 12' X 15' RHAC pump				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
14 day avg	7/96	N/A	→	224	140	8	.625
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold &amp; Used for Fuel

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Logs in Item #26

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Cheryl Cameron

TITLE Regulatory Compliance Specialist

DATE 7/19/96

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

## GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	4434'					
Point 3 Mkr	4724'					
X Mkr	4958'					
Y Mkr	4992'					
Douglas Ck Mkr	5116'					
Bicarbonate Mkr	5374'					
B Limestone Mkr	5516'					
Castle Peak	6004'					

ENTITY ACTION FORM - FORM 6

OPERATOR INLAND PRODUCTION COMPANY

OPERATOR ACCT. NO. H 5160

ADDRESS \_\_\_\_\_

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D		12308									
WELL 1 COMMENTS: *SAND WASH (GREEN RIVER) UNIT EFF 12-01-97;ALL WELLS LISTED SHOULD BE GROUPED TOGETHER UNDER A COMMON ENTITY NUMBER AS PER OPERATOR REQUEST EFF 12-1-97. (SEE ATTACHED)											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

3-11-98

Title

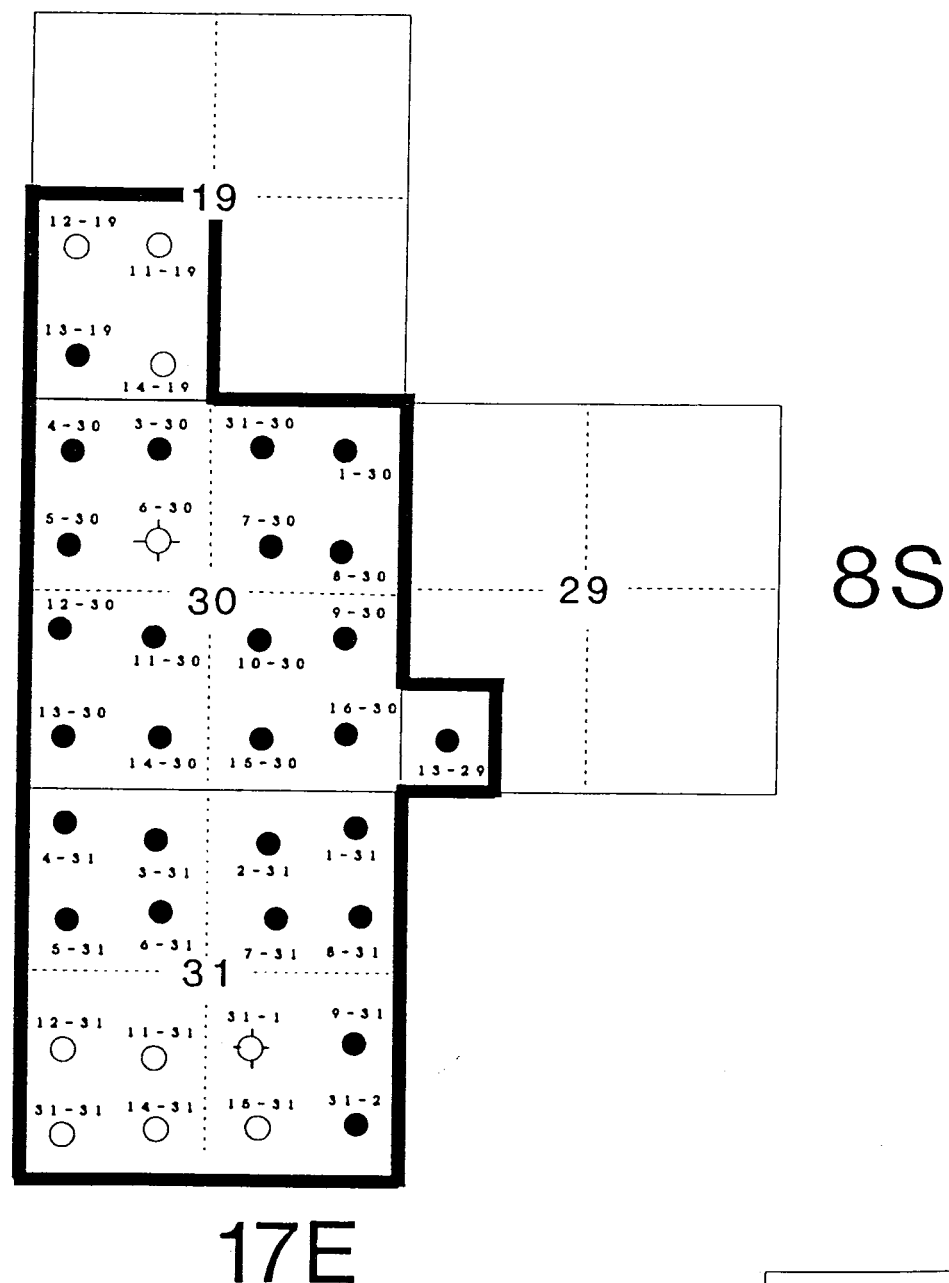
Date

Phone No. ( )

# SAND WASH (GREEN RIVER) UNIT

## Duchesne County, Utah

EFFECTIVE: DECEMBER 1, 1997



— UNIT OUTLINE (UTU76788X)  
1,444.06 ACRES

SECONDARY ALLOCATION	
FEDERAL FEE	96.94% 3.06%

## INLAND PRODUCTION COMPANY SANDWASH UNIT

AS OF 3/10/98

SANDWASH UNIT	WELL NAME & # W/ RANGE & TOWNSHIP	API NUMBER	
	TAR SANDS #13-29-8-17	43-013-31925	12218
	TAR SANDS #1-30-8-17	43-013-31898	12251
Wildrose Resources	<del>HARBOUR TOWN #31-30-8-17 (2-30)</del>	<del>43-013-31758</del>	<del>12097</del>
	TAR SANDS #3-30-8-17	43-013-31755	12045
	TAR SANDS #4-30-8-17	43-013-31621	11916
	TAR SANDS #5-30-8-17	43-013-31620	11958
	TAR SANDS #7-30-8-17	43-013-31807	12131
	TAR SANDS #8-30-8-17	43-013-31870	12141
	TAR SANDS #9-30-8-17	43-013-31873	12177
	TAR SANDS #10-30-8-17	43-013-31808	12126
	TAR SANDS #11-30-8-17	43-013-31732	12041
	TAR SANDS #12-30-8-17	43-013-31543	11945
	TAR SANDS #13-30-8-17	43-013-31637	11940
	TAR SANDS #15-30-8-17	43-013-31874	12164
	TAR SANDS #16-30-8-17	43-013-31708	12070
	TAR SANDS #1-31-8-17	43-013-31654	12012
	TAR SANDS #2-31-8-17	43-013-31866	12142
	TAR SANDS #3-31-8-17	43-013-31733	12162
	TAR SANDS #4-31-8-17	43-013-31606	11953
	TAR SANDS #5-31-8-17	43-013-31607	12140
	TAR SANDS #6-31-8-17	43-013-31686	12163
	TAR SANDS #7-31-8-17	43-013-31684	12149
	TAR SANDS #8-31-8-17	43-013-31615	11913
	TAR SANDS #9-31-8-17	43-013-31616	12220
Wildrose Resources	<del>GOVT #31-2-8-17 (16-31)</del>	<del>43-013-20082</del>	<del>06300</del>

Lo: Lisa  
 From: Sebile



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

*FACSIMILE COVER SHEET*

DATE: 01-09-98

NUMBER OF PAGES INCLUDING THIS COVER SHEET: 4

TO: KEBBIE JONES  
INLAND PRODUCTION COMPANY

FAX NUMBER: (801) 722-9149

FROM: LISHA CORDOVA  
DIVISION OF OIL GAS AND MINING

PHONE: (801) 538-5340

FAX: (801) 359-3940

SUBJECT: PLEASE REVIEW ENTITY ASSIGNMENTS FOR THE UNITS LISTED BELOW:  
ASHLEY, BOUNDARY, SAND WASH (GREEN RIVER) \*PLATS ATTACHED

REMARKS: IF YOU WOULD LIKE A "COMMON" ENTITY NUMBER ASSIGNED FOR  
REPORTING PURPOSES, PLEASE LET ME KNOW ASAP! ANY QUESTIONS, PLEASE  
CALL ME AT 538-5296. THANK YOU!

Should you encounter any problems with this copy, or do not receive all the pages, please call

Important: This message is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this original message to us at the above address via regular postal service. Thank you.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**0559 FNL 0643 FWL NW/NW Section 30, T08S R17E**

5. Lease Designation and Serial No.

**U-74869**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**SAND WASH (GR RVR)**

8. Well Name and No.

**TAR SANDS FEDERAL 4-30**

9. API Well No.

**43-013-31621**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

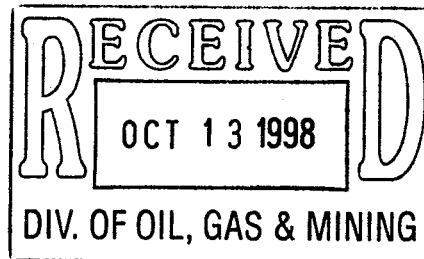
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☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Site Security

☐ Change of Plans  
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☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached please find the site security diagram for the above referenced well.



14. I hereby certify that the foregoing is true and correct

Signed

*Debbie E. Knight*

Title

Manager, Regulatory Compliance

Date

10/8/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**



# Inland Production Company Site Facility Diagram

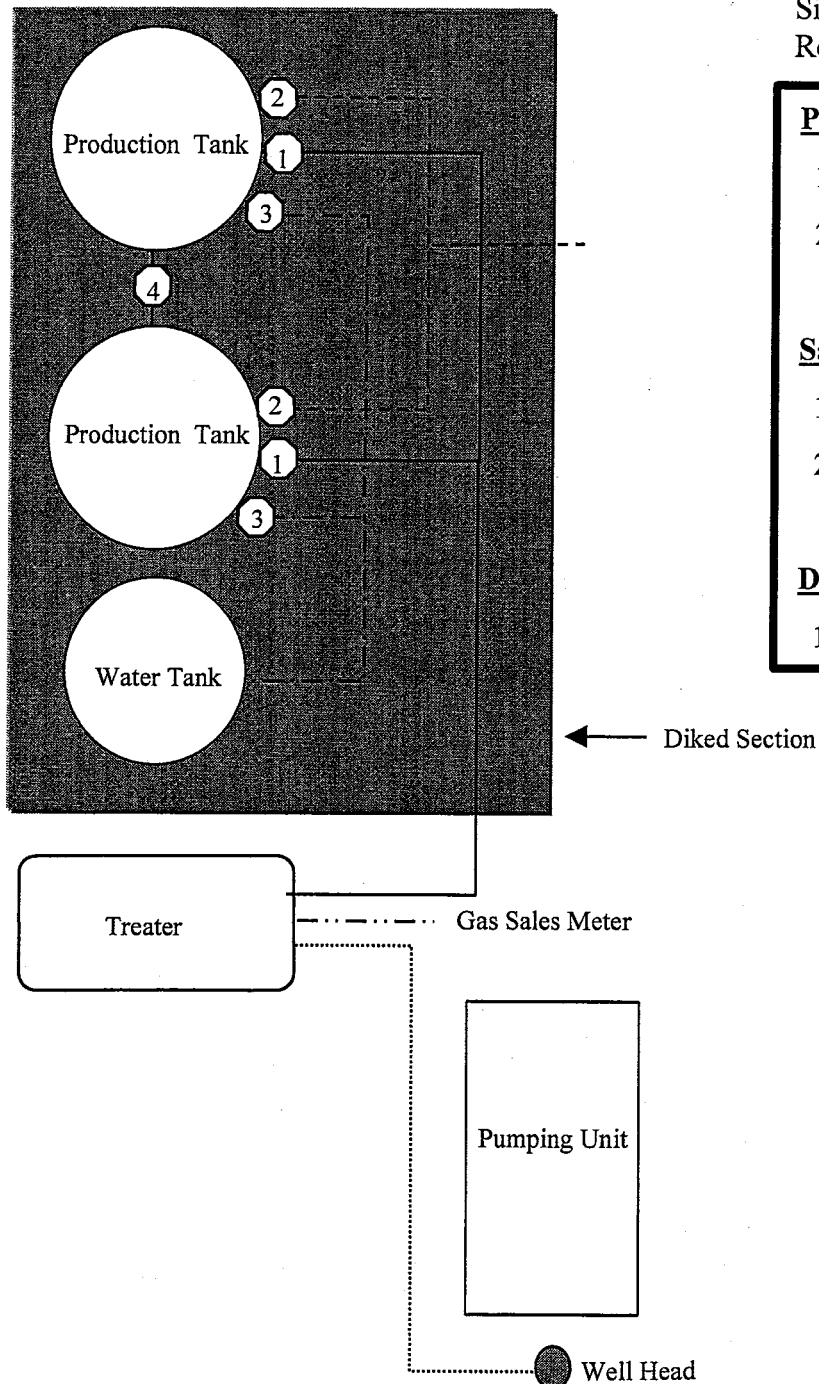
Tar Sands 4-30

NW/NW Sec. 30, T8S, 17E

Duchesne County

Sept. 17, 1998

Site Security Plan is held at the Roosevelt Office,  
Roosevelt Utah



## Production Phase:

- 1) Valves 1, and 3 sealed closed
- 2) Valves 2 and 4 sealed open

## Sales Phase:

- 1) Valves 2, 3, and 4 sealed closed
- 2) Valves 1 open

## Draining Phase:

- 1) Valve 3 open

## Legend

Emulsion Line	.....
Load Line	-----
Water Line	-----
Oil Line	-----
Gas Sales	.....



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office  
From: Acting Chief, Branch of Fluid Minerals  
Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change****Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004****FROM: (Old Operator):**

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**TO: ( New Operator):**

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**CA No.****Unit:****SAND WASH (GREEN RIVER)****WELL(S)**

NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BOUNDARY FED 13-19-8-17	19	080S	170E	4301331625	12308	Federal	WI	A
TAR SANDS FED 12-30	30	080S	170E	4301331543	12308	Federal	OW	P
TAR SANDS FED 5-30	30	080S	170E	4301331620	12308	Federal	WI	A
TAR SANDS FED 4-30	30	080S	170E	4301331621	12308	Federal	OW	P
TAR SANDS FED 13-30	30	080S	170E	4301331637	12308	Federal	WI	A
TAR SANDS FED 16-30	30	080S	170E	4301331708	12308	Federal	OW	P
TAR SANDS FED 14-30	30	080S	170E	4301331711	12308	Federal	OW	P
TAR SANDS 6-30-8-17	30	080S	170E	4301331712	12308	Federal	OW	P
TAR SANDS FED 11-30	30	080S	170E	4301331732	12308	Federal	WI	A
TAR SANDS FED 3-30	30	080S	170E	4301331755	12308	Federal	WI	A
HARBOUR TOWN FED 31-30	30	080S	170E	4301331758	12308	Federal	OW	P
TAR SANDS FED 7-30	30	080S	170E	4301331807	12308	Federal	WI	A
TAR SANDS FED 10-30	30	080S	170E	4301331808	12308	Federal	OW	P
GOVERNMENT 31-2	31	080S	170E	4301320082	12308	Federal	OW	P
TAR SANDS FED 4-31	31	080S	170E	4301331606	12308	Federal	OW	P
TAR SANDS FED 5-31	31	080S	170E	4301331607	12308	Federal	WI	A
TAR SANDS FED 8-31	31	080S	170E	4301331615	12308	Federal	OW	P
TAR SANDS FED 9-31	31	080S	170E	4301331616	12308	Federal	OW	P
TAR SANDS FED 1-31	31	080S	170E	4301331654	12308	Federal	WI	A
TAR SANDS FED 7-31	31	080S	170E	4301331684	12308	Federal	WI	A
TAR SANDS FED 6-31	31	080S	170E	4301331686	12308	Federal	OW	P
TAR SANDS FED 3-31	31	080S	170E	4301331733	12308	Federal	WI	A

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:

- 6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- 6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 2/28/2005
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UT 0056

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 61BSBDH2912

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
2. The FORMER operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

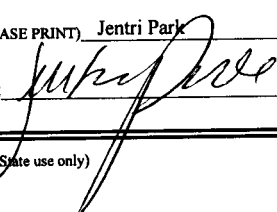
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:		5. LEASE DESIGNATION AND SERIAL NUMBER:	
OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		USA UTU-74869	
2. NAME OF OPERATOR:		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
NEWFIELD PRODUCTION COMPANY			
3. ADDRESS OF OPERATOR:		7. UNIT or CA AGREEMENT NAME:	
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		SAND WASH UNIT	
4. LOCATION OF WELL:		8. WELL NAME and NUMBER:	
FOOTAGES AT SURFACE: 559 FNL 643 FWL		TAR SANDS FED 4-30	
		9. API NUMBER:	
		4301331621	
		10. FIELD AND POOL, OR WILDCAT:	
		MONUMENT BUTTE	
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNW, 30, T8S, R17E		COUNTY: DUCHESNE	
		STATE: UT	

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input checked="" type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: -
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  02/22/2007			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
The above subject well had workover producores performed on 02/28/07, attached is a daily status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk  
SIGNATURE  DATE 03/22/2007  
(This space for State use only)

RECEIVED  
MAR 26 2007  
DIV. OF OIL, GAS & MINING



**Daily Activity Report**

Format For Sundry

**TAR SANDS 4-30-8-17****12/1/2006 To 4/28/2007****2/23/2007 Day: 1****Workover**

Rig #59 on 2/22/2007 - MIRU Key #59. Softseat pump. Pressure test tbg. to 3000 psi. LD 3/4" guided rods, hang back 3/4" slick rods. X-over for tbg. ND wellhead. Release TAC. NU BOP. RIH w/ 12 jts 2 7/8" tbg. RU pump & lines. SWIFN.

---

**2/26/2007 Day: 2****Workover**

Rig #59 on 2/23/2007 - RIH w/ tbg. Tag 5095'. Circulate to RBP @ 5100'. Release RBP. Pressure under plug. Circulate to kill well. POOH w/ tbg. LD BHA. RIH w/ 4 3/4" rock bit, 5 1/2" csg. Scraper, PSN & 2 7/8" tbg. to 5328'. Pull up to 5200'. SWIFN.

---

**2/27/2007 Day: 3****Workover**

Rig #59 on 2/26/2007 - Circulate well clean. POOH w/ tbg. LD bit & scraper. MU & RIH w/ 5 1/2" TS plug, on/off tool, 2 3/8" x 4' tbg. sub, 5 1/2" HD pkr., PSN & 2 7/8" tbg. Set plug @ 5231' & HD pkr. @ 5200'. RU pump to tbg. Pressure test tools to 2000 psi. Release & move HD pkr. to 5137'. RU BJ acid crew to tbg. Establish injection rate into D sds @ 5160-72' & acidize as shown below. Flow well to flat tank to recover acid. SWIFN.

---

**2/28/2007 Day: 4****Workover**

Rig #59 on 2/27/2007 - Release tools. Set TS plug @ 4700' & HD pkr. @ 4607'. RU acid crew. Establish injection rate into GB sds and acidize as shown below. Flow well to flat tank to recover spent acid. Release tools. POOH w/ tbg. LD plug & pkr. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 2 jts 2 7/8" tbg., 5 1/2" TAC & 166 jts 2 7/8" tbg. ND BOP. Set TAC w/ 15,000# tension. NU wellhead. X-over for rods. SWIFN.

---

**3/1/2007 Day: 5****Workover**

Rig #59 on 2/28/2007 - RU hotoiler to tbg. Flush tbg. w/ 50 bbls 250° water. RIH w/ CDI 2 1/2" x 1 3/4" x 20' RHAC pump, 6- 1 1/2" weight bars, 10- 3/4" guided rods, 94- 3/4" slick rods, 100- 7/8" guided rods, 1 1/2" x 26' polished rod. Seat pump. Stroke test to 800 psi. RU pumping unit. Hang off rods. Adjust tag. RD. Return well to production @ 3:00 p.m. 5 spm. 98" stroke length. Final Report.

---

**3/5/2007 Day: 6****Workover**

Rig #59 on 2/28/2007 - Replace 228 pumping unit with 320 pumping unit. Return well to production @ 3:00 p.m. 5 spm. 98" stroke length. Final Report.

---

**Pertinent Files: Go to File List**



March 22, 2007

Mr. Brad Hill  
State of Utah, DOGM  
1594 West North Temple-Suite 1310  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Workover  
Tar Sands Federal 4-30-8-17  
Sec. 30, T8S, R17E  
API #4301331621

Dear Mr. Brad Hill:

The subject well had workover operations performed. Then put back on production. Please find enclosed the sundry.

Sincerely,

A handwritten signature in black ink, appearing to read "Jentri Park".

Jentri Park  
Production Clerk

RECEIVED

MAR 26 2007

DIV. OF OIL, GAS & MINING



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

Ref: 8P-W-GW

JAN 27 2010

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, CO 80202

RE: Additional Well: Sand Wash Area Permit  
Well ID: UT20847- 08666  
Tar Sands Federal No. 4-30-8-17  
NW NW Sec. 30-T8S-R17E  
Duchesne County, Utah  
API #43-013-31621

Dear Mr. Sundberg:

The Newfield Production Company's (Newfield) request to convert the former Green River Formation oil well Tar Sands Federal No. 4-30-8-17 to an enhanced recovery injection well under the Sand Wash Area Permit is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization for Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Sand Wash Area Permit No. UT20847-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA, and has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 4,108 feet and the top of the Wasatch Formation, estimated at 6,537 feet.

**RECEIVED**

**FEB 03 2010**

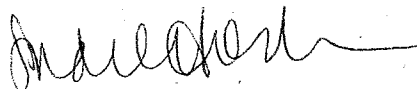

**DIV. OF OIL, GAS & MINING**

Prior to receiving authorization to inject into Tar Sands Federal No. 4-30-8-17, EPA requires Newfield submit for review and approval the results of a Part 1 (Internal) mechanical integrity test (MIT), a pore pressure calculation of the injection interval and an EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram. Once these requirements have been approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days during which time a Radioactive Tracer Survey (RTS) is required.

The initial Maximum Allowable Injection Pressure (MAIP) for the Tar Sands Federal No. 4-30-8-17 was determined to be 1,715 psig. UIC Area Permit UT20847-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a Step Rate Test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or 1-(800)-227-8917 (Ext. 312-6174). Please submit the required data to Attention: Emmett Schmitz at the letterhead address, citing MAIL CODE: 8P-W-GW very prominently.

Sincerely,

Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Encl: Authorization for Conversion of An Additional Well  
EPA Form No. 7520-12 (Well Rework Record)  
EPA Form No. 7520-13 (Plugging Record)  
Proposed Conversion Schematic: Tar Sands Federal No. 4-30-8-17  
P&A Schematic: Tar Sands Federal No. 4-30-8-17

cc: Permit Letter:  
Uintah & Ouray Business Committee:  
Curtis Cesspooch, Chairman  
Irene Cuch, Vice-Chairwoman  
Ronald Groves, Councilman  
Steven Cesspooch, Councilman  
Phillip Chimburas, Councilman  
Frances Poowegup, Councilwoman

Daniel Picard, Superintendent  
Uintah & Ouray Indian Agency  
Bureau of Indian Affairs

All Enclosures:

Ferron Secakuku  
Director, Natural Resources  
Ute Indian Tribe

Larry Love  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Gil Hunt  
Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Michael Guinn  
District Manager  
Newfield Production Company  
Myton, Utah



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
1595 WYNKOOP STREET  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

## AUTHORIZATION FOR ADDITIONAL WELL

**Sand Wash UIC Area Permit No: UT20847-00000**

Sand Wash Final UIC Area Permit UT20847-00000, effective May 26, 1988, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. September 4, 2009, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name:	Tar Sands Federal No. 4-30-8-17
EPA Well ID Number:	UT20847-08666
Location:	559' FNL & 643' FWL NW NW Sec. 30 -T8S-R17E Duchesne County, Utah API #43-013-31621

Pursuant to 40 CFR §144.33, Sand Wash UIC Final Area Permit No. UT20847-00000 authorizes the Permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the Sand Wash Area Permit. This well was determined to satisfy additional well criteria required by the Permit.

This well is subject to all provisions of UIC Area Permit No. UT20847-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the Permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: **JAN 27 2010**

**Stephen S. Tuber**  
\*Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

*\* The person holding this title is referred to as the Director throughout the Permit and Authorization*

Authorization for Additional Well: UIC Area Permit UT20847-00000  
Well: Tar Sands Federal No. 4-30-8-17 EPA Well ID: UT20847-08666

Printed on Recycled Paper

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: Tar Sands Federal No. 4-30-8-17

EPA Well ID Number: UT20847-08666

### **Prior to Commencing Injection Operations, the Permittee shall submit the following information:**

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone;
3. A successful Part I (Internal) Mechanical Integrity Test (MIT);

Once these records are received and approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required. The RTS will supplement the cementing records, which show an insufficient interval of 80 percent cement bond index or greater through the Confining Zone or "A" and "B" Alternative Confining Shale. It is intended that a maximum of 180 days of injection will allow the injection zone to achieve the Maximum Allowable Injection Pressure (MAIP) for the purpose of executing the RTS. If 180 days is not sufficient to achieve the MAIP specified in the Permit, an extension of the period of Limited Authorization to Inject may be requested.

A successful RTS will be considered a valid confirmation that cementing records show adequate cement to prevent the upward migration of injection fluids from the injection zone at injection pressures up to the MAIP, until one of the following events occurs, at which time a subsequent RTS is required:

- a) If the submitted RTS is determined to be inconclusive or inadequate by EPA;
- b) If the MAIP of the injection well is exceeded for any reason (*It is a violation to exceed the MAIP without prior EPA approval*);
- c) If new injection perforations are added to the injection well, either through the creation of new perforations or the adjustment of the packer depth to inject into a set of existing perforations that were previously inactive;
- d) If the injection formation is acid-treated, hydraulically stimulated, or stimulated by any other method through the injection well, which may affect the cement integrity of the well, and
- e) If the Director requests that a RTS be run for any reason.

A submitted RTS which indicates the movement of fluid behind casing from the injection zone will result in a requirement to demonstrate Part II Mechanical Integrity using an approved Part II demonstration method such as a Temperature Log, Oxygen Activation Log, or Noise Log at a frequency no less than once every five years following the last successful test.

Once these records are received and approved by EPA, Director will provide written authorization to continue injection.

**PLEASE NOTE THAT ALL DEPTHS ARE CALCULATED FROM KELLY BUSHING.**

**Approved Injection Zone:** Injection is approved between the top of the Green River Formation-Garden Gulch Member (4108 feet) to the estimated top of the Wasatch Formation at a depth of 6,537 feet.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,715 psig, based on the following calculation:

$$\begin{aligned}\text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D} \\ \text{FG} &= 0.81 \text{ psi/ft} \\ \text{SG} &= 1.015 \\ \text{D} &= 4,629 \text{ feet (top perforation depth)} \\ \text{MAIP} &= \underline{\underline{1,715 \text{ psig}}}\end{aligned}$$

UIC Area Permit No. UT20847-00000 provides the opportunity for the Permittee to request a change of the MAIP based upon the submitted results of a Step-Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

**Well Construction: Casing and Cementing:** Tar Sands Federal No. 4-30-8-17 was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cementing records, including the Cement Bond Log (CBL), have not demonstrated the presence of adequate cement across Administrative Confining Zone (4,056 feet – 4,108 feet) for preventing migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8 inch or acceptable size injection tubing is approved. The packer shall be set at a depth no more than 100 feet above the top perforation.

**Demonstration of Mechanical Integrity:** A successful demonstration of Part I (Internal) Mechanical Integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than once every five years after the last successful test.

Because the cementing records have not satisfactorily demonstrated the presence of adequate cement to prevent migration of injection fluids behind the casing from the injection zone, a RTS is required to confirm the presence of adequate cement. If the RTS is not run, or if the RTS does not confirm adequate cement, the Permittee shall demonstrate Part II (External) Mechanical Integrity pursuant to 40 CFR §146.8(a)(2) using an approved test method such as temperature



log, noise log or oxygen activation log, and the demonstration of Part II Mechanical Integrity shall be repeated no less than every five years after the last successful test.

**Demonstration of Financial Responsibility:** The Applicant has demonstrated financial responsibility by a Financial Statement in the amount of \$59,344 that has been approved by EPA. The Director may revise the amount required, and may require the Permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment Plan.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50-foot surface plug (Plug No. 4) shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 feet above the top perforation with a minimum 20-foot cement plug on top of the CIBP.

PLUG NO. 2: Perforate and squeeze cement up the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Bench from approximately 3,220 feet – 3,390 feet unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 170-foot balanced cement plug inside the 5-1/2 inch casing from approximately 3,220 feet – 3,390 feet.

PLUG NO. 3: Perforate and squeeze cement up the backside of the 5-1/2 inch casing across the contact between the Uinta Formation and Green River Formation (1,810 feet) from approximately 1,750 feet – 1,870 feet unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the 5-1/2 inch casing from approximately 1,750 feet -1,870 feet.

PLUG NO. 4: Set a Class "G" cement plug within the 5-1/2 inch casing to 350 feet and up the 5-1/2 inch x 8-5/8 inch casing annulus to the surface.

## **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: Tar Sands Federal No. 4-30-8-17  
EPA Well ID Number: UT20847-08666

**Underground Sources of Drinking Water (USDWs):** USDWs in the Sand Wash Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 150 feet below ground surface in Tar Sands Federal No. 4-30-8-17.

**http:NRWRT1.NR.STATE.UT.US:** There are no reservoirs, streams, domestic or agricultural water wells within a quarter (1/4) mile of the Tar Sands Federal No. 4-30-8-17.

**Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS]):**  
- TDS of the Garden Gulch and Douglas Creek Members of the Green River Formation Water: 15,527 mg/l.

- TDS of Beluga Facility Injection System source water: 3,186 mg/l.

**Aquifer Exemption:** An Aquifer Exemption is not required because the TDS of the produced water from the proposed injection well is greater than 10,000 mg/l.

**Confining Zone:** The 52-foot Green River Formation – Administrative Confining Zone occurs between 4,056 feet and 4,108 feet.

**Injection Zone:** The Injection Zone in Tar Sands Federal No. 4-30-8-17 contains approximately 2,429 feet of interbedded and lenticular sand, shale, marlstone and limestone from the top of the Garden Gulch Member (4,108 feet) to the estimated top of the Wasatch Formation at 6,537 feet. All formation and member tops are based on correlations to Newfield Production Federal No. 1-26-8-17 (UT20702-04671) Type Log.

**Well Construction:** 80% bond index cement bond in the Administrative Confining Zone, necessary to prevent significant migration of injection fluids behind casing, is not demonstrated on the Cement Bond Log.

**Surface Casing:** 8-5/8 inch casing is set at 300 feet in a 12-1/4 inch hole, using 120 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2 inch casing is set at 6,252 feet in a 7-7/8 inch hole secured with 550 sacks of cement Total driller depth 6,252 feet. Plugged back total depth is 6,250 feet. CBL top of cement is 78 feet.

**Perforations:** Top perforation: 4,629 feet. Bottom perforation: 5,172 feet.

## **AREA OF REVIEW (AOR) WELL REQUIREMENTS**

Five (5) wells penetrating the Administrative Confining Zone, within or proximate to a 1/4 mile radius around the Tar Sands Federal No. 4-30-8-17, were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs. No Corrective Action is required.

Tar Sands Federal No. 5-30-8-17      UT20847-04408      SW NW Sec. 30-T8S-R17E  
80% bond index cement bond across Administrative Confining Zone (4,042 feet – 4,100 feet), Alternative Confining Shale “A” (4,214 feet – 4,302 feet), and Alternative Confining Shale “B” (4,336 feet – 4,424 feet)

Tar Sands Federal No. 3-30-8-17      UT20847-04431      NE NW Sec. 30-T8S-R17E  
80% bond index cement bond across Administrative Confining Zone (4,044 feet – 4,094 feet), Alternative Confining Shale “A” (4,210 feet – 4,298 feet), and Alternative Confining Shale “B” (4,328 feet – 4,422 feet).

Boundary Federal No. 13-19-8-17      UT20847-04409      SW SW Sec. 19-T8S-R17E  
80% bond index cement bond across Administrative Confining Zone (4,106 feet – 4,154 feet), Alternative Confining Shale “A” (4,272 feet – 4,360 feet), and Alternative Confining Shale “B” (4,390 feet – 4,484 feet).

Sand Wash Federal No. G-30-8-17      NW NW Sec. 30-T8S-R17E  
80% bond index cement bond across Administrative Confining Zone (4,094 feet – 4,148 feet), Alternative Confining Shale “A” (4,264 feet – 4,352 feet), and Alternative Confining Shale “B” 4,384 feet – 4,476 feet).

Monument Butte Federal No. 1-25-8-16      STATE PERMIT      NE NE Sec. 25-T8S-R16E  
Utah “Permit-Statement of Basis”: “On newly drilled wells cement tops are sometimes difficult to determine because the operator has been using a highlift light cement as a lead cement. This cement has low compressive strength and does not show up as a good bond on CBL”. Monument Butte Federal No. 1-25-8-16 is regularly monitored.

### **Reporting of Noncompliance:**

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.

- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the NRC website at <http://www.nrc.uscg.mil/index.htm>

**Other Noncompliance:** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

UT 20847-08666  
Tar Sands Federal #4-30-8-17

Spud Date: 5/18/96  
POP: 6/26/96  
GL: 5378' KB: 5391'

Initial Production: 224 BOPD,  
140 MCFPD, 8 BWPD

Proposed Injection  
Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (287.64')  
DEPTH LANDED: 300' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 166 jts. (6255.57')  
DEPTH LANDED: 6251.57' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 290 sk Hyfill mixed & 360 sxs thixotropic  
CEMENT TOP AT: 78'

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50  
NO. OF JOINTS: 166 jts 5190.11'  
TUBING ANCHOR: 5202.11'  
NO OF JOINTS: 2 jts. (60.71')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED: (5265.62)  
NO. OF JOINTS: 2 jts (63.19)  
TOTAL STRING LENGTH: (BOT @ 5330.36')KB

FRAC JOB

6/19/96 5160'-5172' Frac D-1 sand as follows:  
94,400# 20/40 sand in 470 bbls of  
Boragel. Breakdown @ 1613 psi, treated  
@ avg rate 18.3 bpm w/avg press of 1670  
psi. ISIP 1947 psi, 5-min 1877 psi. Start  
flowback on 16/64" ck after 5 min.  
Flowed for 3 hrs and died.  
6/21/96 4629'-4650' Frac GB-4 sand as follows:  
95,400# of 20/40 sand in 491 bbls of  
Boragel. Breakdown @ 1777 psi. Treated  
@ avg rate 18.2 bpm w/avg press of 1470  
psi. ISIP 2166 psi, 5-min 1637 psi.  
Flowback after 5 min on 16/64" ck.  
Flowed for 5-1/2 hrs & died.  
02/28/07 Workover Rod & Tubing Detail Updated.  
11-15-07 Tubing Leak. Updated rod & tubing  
details.

3272'-3318' Irons  
3318'-3338' Mahogany Branch

4056'-4108' Confining Zone  
4108' Garden Gulch

"A" Shale 4276'-4312'  
"B" Shale 4344'-4432'

80% Bone 4610'-4650'

Packer @ 4579'  
4629'-32'  
4635'-44'  
4645'-50'

PERFORATION RECORD

Date	Depth Range	JSPP	Holes
6/18/96	5160'-5172'	4 JSPP	48 holes
6/20/96	4629'-4632'	4 JSPP	12 holes
6/20/96	4635'-4644'	4 JSPP	36 holes
6/20/96	4645'-4650'	4 JSPP	20 holes

5160'-72'

5168' Douglas Creek

6002'-6026' Little Rock

Sand Top @ 6240'  
PBTD @ 6250'  
TD @ 6252'

Est. Base Carbonate 6412'  
Est. Litho 6537'

**NEWFIELD**

Tar Sands Federal #4-30-8-17

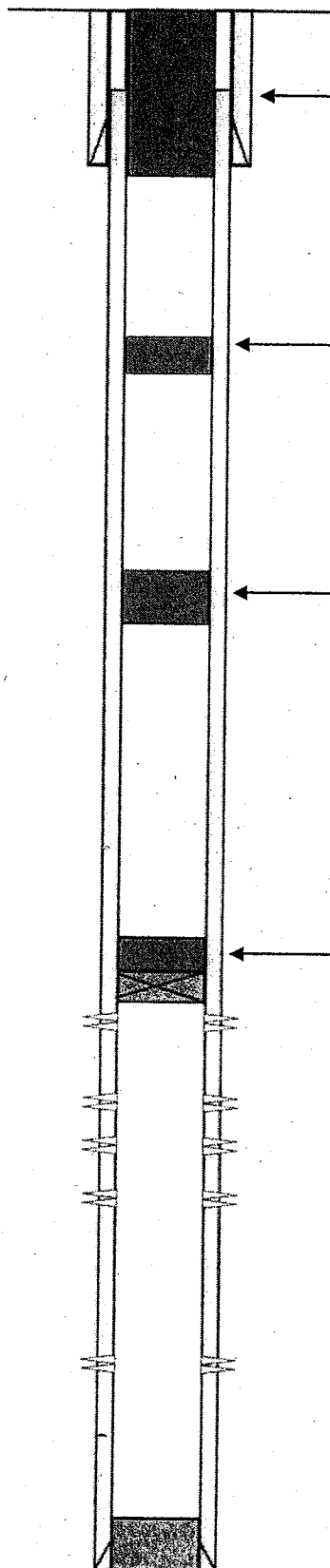
559' FNL & 643' FWL

NW/NW Section 30-T8S-R17E

Duchesne Co, Utah

API #43-013-31621; Lease #UTU-74869

**Plugging and Abandonment Diagram**  
**Tar Sands Federal No. 4-30-8-17**



Plug 4: Set a Class "G" cement plug within the 5-1/2 inch casing surface to 350 feet and up the 5-1/2 inch X 8-5/8 inch casing annulus to the surface.

Plug 3: Perforate and squeeze cement up the backside of the casing across the contact between the Uinta Formation and Green River Formation 1,750 feet - 1,870 feet unless existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot balanced cement plug inside the casing from approximately 1,750 feet - 1,870 feet.

Plug 2: Perforate and squeeze cement up the backside of the casing across the Trona Zone and the Mahogany Bench from approximately 3,220 feet - 3,390 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 170-foot balanced cement plug inside the casing from approximately 3,220 feet - 3,390 feet.

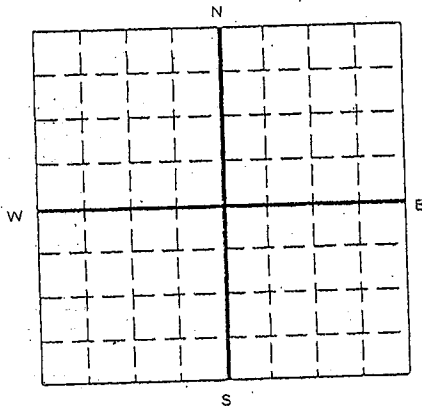
Plug 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation with a minimum of 20 ft cement plug on top of the CIBP.


 United States Environmental Protection Agency  
 Washington, DC 20460

**WELL REWORK RECORD**

Name and Address of Permittee

Name and Address of Contractor

 Locate Well and Outline Unit on  
 Section Plat - 640 Acres


State

County

Permit Number

Surface Location Description

\_\_\_\_ 1/4 of \_\_\_\_ 1/4 of \_\_\_\_ 1/4 of \_\_\_\_ 1/4 of Section \_\_\_\_ Township \_\_\_\_ Range \_\_\_\_

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location \_\_\_\_ ft. from (N/S) \_\_\_\_ Line of quarter section

and \_\_\_\_ ft. from (E/W) \_\_\_\_ Line of quarter section.

## WELL ACTIVITY

- ☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

## TYPE OF PERMIT

- ☐ Individual  
☐ Area  
 Number of Wells \_\_\_\_

Well Number

**WELL CASING RECORD -- BEFORE REWORK**

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

**WELL CASING RECORD -- AFTER REWORK (Indicate Additions and Changes Only)**

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

 DESCRIBE REWORK OPERATIONS IN DETAIL  
 USE ADDITIONAL SHEETS IF NECESSARY

**WIRE LINE LOGS, LIST EACH TYPE**

Log Types

Logged Intervals

**Certification**

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Signature

Date Signed


 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 WASHINGTON, DC 20460

**PLUGGING RECORD**

NAME AND ADDRESS OF PERMITTEE				NAME AND ADDRESS OF CEMENTING COMPANY																																																																																											
LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES  <div style="text-align: center;">N</div> <div style="display: flex; justify-content: space-between; align-items: center;"> <span>W</span> <table border="1" style="width: 100%; height: 100px; border-collapse: collapse;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <span>E</span> </div> <div style="text-align: center;">S</div>																																																																				STATE _____ COUNTY _____ PERMIT NUMBER _____  SURFACE LOCATION DESCRIPTION _____ 1/4 of _____ 1/4 of _____ 1/4 of _____ 1/4 of Section _____ Township _____ Range _____  LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location _____ ft. from (N/S) _____ Line of quarter section and _____ ft. from (E/W) _____ Line of quarter section  TYPE OF AUTHORIZATION <input type="radio"/> Individual Permit <input type="radio"/> Area Permit <input type="radio"/> Rule  Number of Wells _____  Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole          Lease Name _____																											
CASING AND TUBING RECORD AFTER PLUGGING <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>WT(LB/FT)</th> <th>TO BE PUT IN WELL(FT)</th> <th>TO BE LEFT IN WELL(FT)</th> <th>HOLE SIZE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				SIZE	WT(LB/FT)	TO BE PUT IN WELL(FT)	TO BE LEFT IN WELL(FT)	HOLE SIZE																																									METHOD OF EMPLACEMENT OF CEMENT PLUGS <input type="radio"/> CLASS I <input type="radio"/> CLASS II <input type="radio"/> Brine Disposal <input type="radio"/> Enhanced Recovery <input type="radio"/> Hydrocarbon Storage <input type="radio"/> CLASS III <input type="radio"/> The Balance Method <input type="radio"/> The Dump Bailer Method <input type="radio"/> The Two-Plug Method <input type="radio"/> Other																																														
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CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)																																																																																															
NAME AND OFFICIAL TITLE (Please type or print)				SIGNATURE		DATE SIGNED																																																																																									





**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION 8**

**1595 Wynkoop Street**

**DENVER, CO 80202-1129**

**Phone 800-227-8917**

**<http://www.epa.gov/region08>**

**NOV 14 2011**

Ref: 8P-W-GW

**CERTIFIED MAIL**

**RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, Colorado 80202

Accepted by the  
Utah Division of  
Oil, Gas and Mining

**FOR RECORD ONLY**

RE: Additional Well: Sand Wash Area Permit  
Well ID: UT20847-09374  
Tar Sands Federal 4-30-8-17  
NW NW Sec. 30-T8S-R17E  
Duchesne County, Utah  
API #43-013-31621

**RECEIVED**

**NOV 21 2011**

**DIV. OF OIL, GAS & MINING**

Dear Mr. Sundberg:

The Newfield Production Company's request to convert the former Green River Formation oil well Tar Sands Federal 4-30-8-17 to an enhanced recovery injection well under the Sand Wash Area Permit is hereby authorized by the Environmental Protection Agency under the terms and conditions of the Authorization for Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Sand Wash Area Permit UT20847-00000 and subsequent modifications.

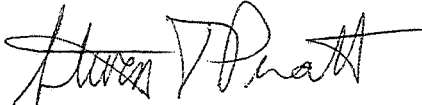
Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA and has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 4,432 feet and the top of the Wasatch Formation, estimated at 6,537 feet.

Prior to receiving authorization to inject into Tar Sands Federal 4-30-8-17, the EPA requires Newfield to submit for review and approval the results of a Part 1 (Internal) mechanical integrity test (MIT), a pore pressure calculation of the injection interval and EPA Form 7520-12 (Well Rework Record) with a new schematic diagram. Once these requirements have been approved by the EPA, the Director will provide written authorization to inject for a limited period of 180 days during which time a Radioactive Tracer Survey is required.

The initial Maximum Allowable Injection Pressure for the Tar Sands Federal 4-30-8-17 was determined to be 1,715 psig. UIC Area Permit UT20847-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a Step Rate Test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174. Please submit the required data to Emmett Schmitz at the letterhead address, citing MAIL CODE 8P-W-GW very prominently.

Sincerely,

  
for Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Enclosures: Authorization for Conversion of an Additional Well  
Injection Wellbore diagram for Tar Sands Federal 4-30-8-17

cc: Permit Letter:

Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Richard Jenks Jr., Councilman  
Frances Poowegup, Councilwoman  
Ronald Wopsock, Vice-Chairman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

cc: All enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Reed Durfey  
District Manager  
Newfield Production Company  
Myton, Utah 84502



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 WYNKOOP STREET

DENVER, CO 80202-1129

Phone 800-227-8917

<http://www.epa.gov/region08>

## AUTHORIZATION FOR ADDITIONAL WELL

**Sand Wash UIC Area Permit No: UT20847-00000**

Sand Wash Final UIC Area Permit UT20847-00000, effective May 26, 1988, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. October 4, 2011, Newfield Production Company (Newfield) notified the Director concerning the following additional enhanced recovery injection well:

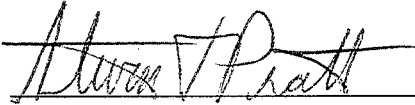
Well Name:	Tar Sands Federal 4-30-8-17
EPA Well ID Number:	UT20847-09374
Location:	559' FNL & 643' FWL NW NW Sec. 30 -T8S-R17E Duchesne County, Utah API #43-013-31621

Pursuant to 40 CFR §144.33, Sand Wash UIC Final Area Permit No. UT20847-00000 authorizes the Permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the Sand Wash Area Permit. This well was determined to satisfy additional well criteria required by the Permit.

This well is subject to all provisions of UIC Area Permit No. UT20847-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the Permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: NOV 14 2011

  
for **Stephen S. Tuber**  
\*Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

*\* The person holding this title is referred to as the Director throughout the Permit and Authorization*

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: Tar Sands Federal No. 4-30-8-17

EPA Well ID Number: UT20847-09374

### **Prior to Commencing Injection Operations, the Permittee shall submit the following information:**

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone;
3. A successful Part I (Internal) Mechanical Integrity Test (MIT);

Once these records are received and approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required. The RTS will supplement the cementing records, which show an insufficient interval of 80 percent cement bond index or greater through the Confining Zone. It is intended that a maximum of 180 days of injection will allow the injection zone to achieve the Maximum Allowable Injection Pressure (MAIP) for the purpose of executing the RTS. If 180 days is not sufficient to achieve the MAIP specified in the Permit, an extension of the period of Limited Authorization to Inject may be requested.

A successful RTS will be considered a valid confirmation that cementing records show adequate cement to prevent the upward migration of injection fluids from the injection zone at injection pressures up to the MAIP, until one of the following events occurs, at which time a subsequent RTS is required:

- a) If the submitted RTS is determined to be inconclusive or inadequate by EPA;
- b) If the MAIP of the injection well is exceeded for any reason (*It is a violation to exceed the MAIP without prior EPA approval*);
- c) If new injection perforations are added to the injection well, either through the creation of new perforations or the adjustment of the packer depth to inject into a set of existing perforations that were previously inactive;
- d) If the injection formation is acid-treated, hydraulically stimulated, or stimulated by any other method through the injection well, which may affect the cement integrity of the well, and
- e) If the Director requests that a RTS be run for any reason.

A submitted RTS which indicates the movement of fluid behind casing from the injection zone will result in a requirement to demonstrate Part II Mechanical Integrity using an approved Part II demonstration method such as a Temperature Log, Oxygen Activation Log, or Noise Log at a frequency no less than once every five years following the last successful test.

Once these records are received and approved by EPA, Director will provide written authorization to continue injection.

**PLEASE NOTE THAT ALL DEPTHS ARE CALCULATED FROM KELLY BUSHING.**

**Approved Injection Zone:** Injection is approved between the top of the Green River Formation-Garden Gulch Member No. 2 (4,432 feet) to the estimated top of the Wasatch Formation at a depth of 6,537 feet.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,200 psig, based on the following calculation:

$$\begin{aligned}\text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D} \\ \text{FG} &= 0.699 \text{ psi/ft} \\ \text{SG} &= 1.015 \\ \text{D} &= 4,629 \text{ feet (top perforation depth)} \\ \text{MAIP} &= 1,200 \text{ psig}\end{aligned}$$

UIC Area Permit No. UT20847-00000 provides the opportunity for the Permittee to request a change of the MAIP based upon the submitted results of a Step-Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

**Well Construction: Casing and Cementing:** Tar Sands Federal No. 4-30-8-17 was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cementing records, including the Cement Bond Log (CBL), have not demonstrated the presence of adequate cement across the Confining Zone (3,918 feet – 4,432 feet) to prevent migration of injection fluids behind the casing from the injection zone. As a result, a radioactive tracer survey is required following the commencement of injection.

**Well Construction: Tubing and Packer:** 2-7/8 inch or acceptable size injection tubing is approved. The packer shall be set at a depth no more than 100 feet above the top perforation.

**Demonstration of Mechanical Integrity:** A successful demonstration of Part I (Internal) Mechanical Integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than once every five years after the last successful test.

Because the cementing records have not satisfactorily demonstrated the presence of adequate cement to prevent migration of injection fluids behind the casing from the injection zone, a RTS is required to confirm the presence of adequate cement. If the RTS is not run, or if the RTS does not confirm adequate cement, the Permittee shall demonstrate Part II (External) Mechanical Integrity pursuant to 40 CFR §146.8(a)(2) using an approved test method such as temperature log, noise log or oxygen activation log, and the demonstration of Part II Mechanical Integrity shall be repeated no less than every five years after the last successful test.

**Demonstration of Financial Responsibility:** The Applicant has demonstrated financial responsibility by a Surety Bond in the amount of \$42,000 that has been approved by EPA. The Director may revise the amount required, and may require the Permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment Plan.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50-foot surface plug (Plug No. 4) shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

**Plug 1:** Isolate the injection zone: Remove down hole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing string no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.

**Plug 2:** Isolate the Trona-Bird's Nest water zone and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing string across the Mahogany Oil Shale and Trona-Bird's Nest water zone, from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.

**Plug 3:** Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing string to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost casing string, centered on the contact between the Green River Formation and Uinta Formation.

**Plug 4: Isolate Surface Fluid Migration Paths:**

If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR

If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND

Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface.

**INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: Tar Sands Federal No. 4-30-8-17  
EPA Well ID Number: UT20847-09374

**Underground Sources of Drinking Water (USDWs):** USDWs in the Sand Wash Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 150 feet below ground surface in Tar Sands Federal No. 4-30-8-17.

**http:NRWRT1.NR.STATE.UT.US:** There are no reservoirs, streams, domestic or agricultural water wells within a quarter (1/4) mile of the Tar Sands Federal No. 4-30-8-17.

**Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS]):**  
- TDS of the Garden Gulch and Douglas Creek Members of the Green River Formation Water: 15,527 mg/l.

- TDS of Boundary Water Injection System source water: 3,186 mg/l.

**Aquifer Exemption:** An Aquifer Exemption is not required because the TDS of the produced water from the proposed injection well is greater than 10,000 mg/l.

**Confining Zone:** The 514-foot Green River Formation – Confining Zone occurs between 3,918 feet and 4,432 feet.

**Injection Zone:** The Injection Zone in Tar Sands Federal 4-30-8-17 contains approximately 2,105 feet of interbedded and lenticular sand, shale, marlstone and limestone from Garden Gulch



Member No.2 (4,432 feet) to the estimated top of the Wasatch Formation at 6,537 feet. All formation and member tops are based on correlations to Newfield Production Federal No. 1-26-8-17 (UT20702-04671) Type Log.

**Well Construction:** Cement Bond Log does not show a sufficient interval of 80 percent cement bond index through the Confining Zone. As a result, a radioactive tracer survey is required.

Surface Casing: 8-5/8 inch casing is set at 300 feet in a 12-1/4 inch hole, using 120 sacks Class "G" cement, cemented to the surface.

Longstring Casing: 5-1/2 inch casing is set at 6,252 feet in a 7-7/8 inch hole secured with 650 sacks of cement. Total driller depth 6,252 feet. Plugged back total depth is 6,250 feet. CBL top of cement is 78 feet.

Perforations: Top perforation: 4,629 feet. Bottom perforation: 5,172 feet.

### **AREA OF REVIEW (AOR) WELL REQUIREMENTS**

Seven (7) wells penetrating the Administrative Confining Zone, within or proximate to a 1/4 mile radius around the Tar Sands Federal No. 4-30-8-17, were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs.

Monument Butte 1-25 (1-25I-8-16) NENE 25-T8S-R16E  
No 80% bond index cement bond in Confining Zone (3,914 feet – 4,438 feet). Utah State Primacy. No

Tar Sands Federal 5-30-8-17 UT20847-04408 SW NW Sec. 30-T8S-R17E  
80% bond index cement bond (4,380 feet – 4,424 feet) in Confining Zone (3,902 feet – 4,424 feet).

Tar Sands Federal 3-30-8-17 UT20847-04431 NE NW Sec. 30-T8S-R17E  
80% bond index cement bond (4,342 feet – 4,422 feet) in Confining Zone (3,900 feet – 4,422 feet).

Boundary Federal 13-19-8-17 UT20847-04409 SW SW Sec. 19-T8S-R17E  
80% bond index cement bond (3,880 feet – 4,050 feet and 4,120 feet – 4,050 across Confining Zone (3,961 feet – 4,484 feet).

Sand Wash Federal G-30-8-17 BHL: SENW Sec. 30 & SHL: NWNW Sec. 30-T8S-R17E  
80% bond index cement bond (4,402 feet – 4,482 feet) in Confining Zone (3,948 feet – 4,476 feet).

*Authorization for Additional Well: UIC Area Permit UT20847-00000  
Well: Tar Sands Federal No. 4-30-8-17 EPA Well ID: UT20847-09374*

Greater Monument Butte A-25-8-16 SHL: SWSW 19-8S-17E: BHL NENENE 25-T8S-R16E  
80% bond index cement bond (4,466 feet – 4,530 feet) in Confining Zone (4,028 feet – 4,560 feet).

Greater Monument Butte J-25-8-16 SHL: SENE 25-T8S-R16E & BHL NWNW 30-T8S-R17E  
80% bond index cement bond (4,431 feet – 4,505 feet) in Confining Zone 3,970 feet – 4,505 feet).

**Reporting of Noncompliance:**

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the NRC website at <http://www.nrc.uscg.mil/index.htm>

**Other Noncompliance:** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

# UT 20847-09374 Tar Sands Federal #4-30-8-17

Spud Date: 5/18/96  
POP: 6/26/96  
GL: 5378' KB: 5391'

Initial Production: 224 BOPD,  
140 MCFPD, 8 BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (287.64')  
DEPTH LANDED: 300' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 166 jts. (6255.57')  
DEPTH LANDED: 6251.57' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 290 sk Hyfill mixed & 360 sxs thixotropic  
CEMENT TOP AT: 78'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50  
NO. OF JOINTS: 166 jts 5190.11'  
TUBING ANCHOR: 5202.11'  
NO OF JOINTS: 2 jts. (60.71')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: (5265.62)  
NO. OF JOINTS: 2 jts (63.19)  
TOTAL STRING LENGTH: (EOT @ 5330.36')KB

### FRAC JOB

6/19/96 5160'-5172' Frac D-1 sand as follows:  
94,400# 20/40 sand in 470 bbls of  
Boragel. Breakdown @ 1613 psi, treated  
@ avg rate 18.3 bpm w/avg press of 1670  
psi. ISIP 1947 psi, 5-min 1877 psi. Start  
flowback on 16/64" ck after 5 min.  
Flowed for 3 hrs & died.  
6/21/96 4629'-4650' Frac GB-4 sand as follows:  
95,400# of 20/40 sand in 491 bbls of  
Boragel. Breakdown @ 1777 psi. Treated  
@ avg rate 18.2 bpm w/avg press of 1470  
psi. ISIP-2166 psi. 5-min 1637 psi.  
Flowback after 5 min on 16/64" ck.  
Flowed for 5-1/2 hrs & died.  
02/28/07 Workover Rod & Tubing Detail Updated.  
11-15-07 Tubing Leak. Updated rod & tubing  
details.

3272'-3318' Irons  
3318'-3338' Mahogany Branch

3918'-4432' Confining Zone  
4432'-Garden Gulch Mem. 2

No 80% cement bond in annulus\*

Packer @ 4579'  
4629'-32'  
4635'-44'  
4645'-50'

### PERFORATION RECORD

Date	Interval	Tool	Holes
6/18/96	5160'-5172'	4 JSPF	48 holes
6/20/96	4629'-4632'	4 JSPF	12 holes
6/20/96	4635'-4644'	4 JSPF	36 holes
6/20/96	4645'-4650'	4 JSPF	20 holes

5160'-72'

5168 Douglas Creek

6002'-6026 Castle Peak

Sand Top @ 6240'  
PBTD @ 6250'  
TD @ 6252'

### NEWFIELD

Tar Sands Federal #4-30-8-17

559' FNL & 643' FWL

NW/NW Section 30-T8S-R17E

Duchesne Co, Utah

API #43-013-31621; Lease #UTU-74869

Est Base Carbonate 6412'  
Est 1603' 6537'

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74869
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> TAR SANDS FED 4-30
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0559 FNL 0643 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 30 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013316210000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/9/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The subject well has been converted from a producing oil well to an injection well on 01/09/2012. On 01/06/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 01/09/2012 the casing was pressured up to 1280 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 10 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20847-09374		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> January 12, 2012		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/10/2012	

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_

Date: 1 1 9 12012Test conducted by: Brendy Cloward

Others present: \_\_\_\_\_

Well Name: <u>Tar Sands Federal 4-30-8-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>NewField Monument B.H.E.</u>		
Location: <u>Tar Sands Fed 4</u>	Sec: <u>30</u> T <u>8</u> N <u>(S)</u> R <u>17</u> <u>(B)</u> W	County: <u>Adams</u> State: <u>UT</u>
Operator: _____		
Last MIT: <u>1</u> / <u>1</u> / _____	Maximum Allowable Pressure: _____ PSIG	

Is this a regularly scheduled test? ☐ Yes ☒ NoInitial test for permit? ☒ Yes ☐ NoTest after well rework? ☐ Yes ☒ NoWell injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpdPre-test casing/tubing annulus pressure: 10 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>10</u> psig	psig	psig
End of test pressure	<u>10</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1280</u> psig	psig	psig
5 minutes	<u>1280</u> psig	psig	psig
10 minutes	<u>1280</u> psig	psig	psig
15 minutes	<u>1280</u> psig	psig	psig
20 minutes	<u>1280</u> psig	psig	psig
25 minutes	<u>1280</u> psig	psig	psig
30 minutes	<u>1280</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

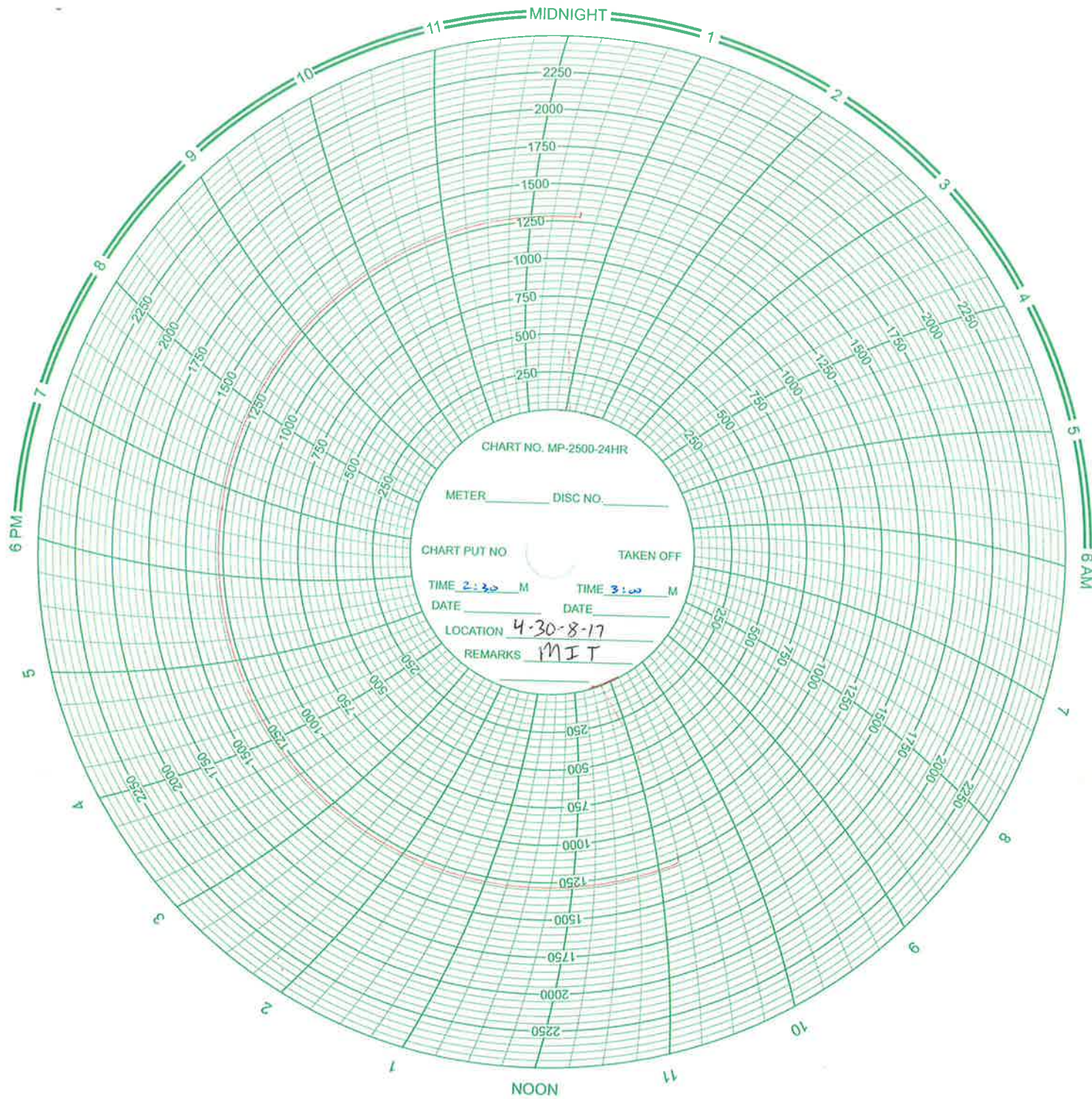
Does the annulus pressure build back up after the test? ☐ Yes ☐ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_





**Daily Activity Report****Format For Sundry****TAR SANDS 4-30-8-17****11/1/2011 To 3/29/2012****1/3/2012 Day: 1****Conversion**

WWS #7 on 1/3/2012 - MIRU WWS #7. Unseat pump. Flush and pressure test. Blew hole in tbg. Start LD rods (134 total). SIWFN - MIRU Western rig #7. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 30 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Pressure test tbg to 3000 psi. Blew hole in tbg. Retrieve rod string & unseat pump. TOH & LD rods 134 total. SIFN. - MIRU Western rig #7. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 30 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Pressure test tbg to 3000 psi. Blew hole in tbg. Retrieve rod string & unseat pump. TOH & LD rods 134 total. SIFN. - MIRU Western rig #7. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 30 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Pressure test tbg to 3000 psi. Blew hole in tbg. Retrieve rod string & unseat pump. TOH & LD rods 134 total. SIFN.

**Daily Cost: \$0****Cumulative Cost: (\$5,464)****1/5/2012 Day: 2****Conversion**

WWS #7 on 1/5/2012 - Cont LD rods. ND WH. NU BOP. GE tried to test WH, Unable to get good test. TOH w/ tbg breaking and re-doping. LD extra tbg. SIWFN - Flush rods and tbg w/ 30 BW. Continue LD rod string and pump. ND wellhead & TA sheared. NU BOP. GE tried to pressure test WH. Unable to get test on WH. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Out W/ 145 jts (Found hole in jt #117). LD remaining 21 jts of tbg. SIFN. - Flush rods and tbg w/ 30 BW. Continue LD rod string and pump. ND wellhead & TA sheared. NU BOP. GE tried to pressure test WH. Unable to get test on WH. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Out W/ 145 jts (Found hole in jt #117). LD remaining 21 jts of tbg. SIFN. - Flush rods and tbg w/ 30 BW. Continue LD rod string and pump. ND wellhead & TA sheared. NU BOP. GE tried to pressure test WH. Unable to get test on WH. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Out W/ 145 jts (Found hole in jt #117). LD remaining 21 jts of tbg. SIFN.

**Daily Cost: \$0****Cumulative Cost: \$1,601****1/6/2012 Day: 3****Conversion**

WWS #7 on 1/6/2012 - Ran gyro. TIH w/ pkr. Pressure test. WH leaked. TOH w/ pkr. TIH w/ RBP. Set RBP @ 1926'. TOH w/ tbg. ND BOP & WH. Replace bad O-ring on WH. NU WH and BOP. Pressure test WH. TIH w/ tbg. Release RBP. TOH w/ RBP. SIWFN - RU V.E.S. Ran gyro from surface to 5940'. RD V.E.S. TIH w/ pkr and 21 jts of tbg. Set pkr and pressure test annulus and WH. WH leaking from 5 1/2" to 8 5/8" csg. Release pkr. TOH w/ tbg. LD pkr. TIH w/ 5 1/2" RBP. Set RBP @ 1926'. TOH w/ tbg. ND BOP and WH. Bad O-ring in WH. Replace O-rings. NU WH. Pressure test well. Good test. NU BOP. PU and RIH w/ tbg. Release RBP. TOH w/ RBP. SIWFN - RU V.E.S. Ran gyro from surface to 5940'. RD V.E.S. TIH w/ pkr and 21 jts of tbg. Set pkr and pressure test annulus and WH. WH leaking from 5 1/2" to 8 5/8" csg. Release pkr. TOH w/ tbg. LD pkr. TIH w/ 5 1/2" RBP. Set RBP @ 1926'. TOH w/ tbg. ND BOP and WH. Bad O-ring in WH. Replace O-rings. NU WH. Pressure test well. Good test. NU BOP.



PU and RIH w/ tbg. Release RBP. TOH w/ RBP. SIWFN - RU V.E.S. Ran gyro from surface to 5940'. RD V.E.S. TIH w/ pkr and 21 jts of tbg. Set pkr and pressure test annulus and WH. WH leaking from 5 1/2" to 8 5/8" csg. Release pkr. TOH w/ tbg. LD pkr. TIH w/ 5 1/2" RBP. Set RBP @ 1926'. TOH w/ tbg. ND BOP and WH. Bad O-ring in WH. Replace O-rings. NU WH. Pressure test well. Good test. NU BOP. PU and RIH w/ tbg. Release RBP. TOH w/ RBP. SIWFN

**Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$8,715

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**1/9/2012 Day: 4**

**Conversion**

Rigless on 1/9/2012 - TIH w/ pkr. Pressure test tbg. Fish SV. Land well. Pump pkr fluid. Set pkr. Pressure test csg. Ready for MIT. - MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ W.L. re-entry guide), new 2 7/8 SN and 145 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Final test held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 70 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4550', & EOT @ 4559'. Land tbg W/ 16,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. Ready for MIT!! - MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ W.L. re-entry guide), new 2 7/8 SN and 145 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Final test held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 70 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4550', & EOT @ 4559'. Land tbg W/ 16,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. Ready for MIT!! - MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ W.L. re-entry guide), new 2 7/8 SN and 145 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Final test held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 70 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4550', & EOT @ 4559'. Land tbg W/ 16,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. Ready for MIT!! **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$17,427

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**1/10/2012 Day: 5**

**Conversion**

Rigless on 1/10/2012 - Conduct initial MIT - On01/06/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 01/09/2012 the casing was pressured up to 1280 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 10 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20847-09374 - On01/06/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 01/09/2012 the casing was pressured up to 1280 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 10 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20847-09374 - On01/06/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 01/09/2012 the casing was pressured up to 1280 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 10 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20847-09374 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$42,747

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**Pertinent Files: Go to File List**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74869
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> TAR SANDS FED 4-30
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0559 FNL 0643 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 30 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013316210000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/7/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="Put on Injection"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The above reference well was put on injection at 1:15 PM on 02/07/2012. EPA # UT20847-09374		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> February 13, 2012		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/7/2012	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

JAN 24 2012

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

RECEIVED

FEB 01 2012

DIV. OF OIL, GAS & MINING

Mr. Reed Durfey  
District Manager  
Newfield Production Company  
Route 3 – Box 3630  
Myton, Utah 84052

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

RE: Underground Injection Control (UIC)  
Limited Authorization to Inject  
EPA UIC Permit UT20847-09374  
Well: Tar Sands Federal 4-30-8-17  
NWNW Sec. 30-T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-31621

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) January 10, 2012, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram and calculated pore pressure were reviewed and approved by the EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20847-09374.

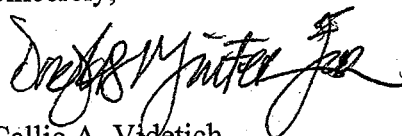
As of the date of this letter, Newfield is authorized to commence injection into the Tar Sands Federal 4-30-8-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,200 psig for a limited period of 180 days during which time a Radioactive Tracer Survey (RTS) is required according to UIC Permit UT20847-09374. If Newfield seeks a higher MAIP than 1,200 psig, it may be advantageous to run a step rate test prior to conducting the RTS because a RTS conducted at the higher MAIP will be required. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

Please remember that it is Newfield's responsibility to be aware of and to comply with all conditions of Permit UT20847-09374.

If you have questions regarding the above action, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174.

The RTS log with interpretation should be mailed to Jason Deardorff at the letterhead address, citing mail code 8P-W-GW.

Sincerely,



Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Richard Jenks Jr., Councilman  
Frances Poowegup, Councilwoman  
Ronald Wopsock, Vice-Chairman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74869
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<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/17/2012	<input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: <input type="text" value="Step Rate Test"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  A step rate test was conducted on the subject well on February 17, 2012. Results from the test indicate that the fracture gradient is 0.770 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1200 psi to 1525 psi. EPA: UT20847-09374		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> March 12, 2012		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/6/2012	

Step Rate Test (SRT) Analysis

Date: 02/21/2012 Operator: Newfield Production Company  
Well: Tar Sands Federal 4-30-8-17  
Permit #: UT20847-09374

Enter the following data :

Specific Gravity (sg) of injectate = 1.015 g/cc  
Depth to top perforation (D) = 4629 feet 4629  
Top of permitted injection zone depth (blank=use top perforation to calculate fg) = feet  
Estimated Formation Parting Pressure (Pfp) from SRT chart = 1530 psi 1530  
Instantaneous Shut In Pressure (ISIP) from SRT = 1605 psi  
Bottom Hole Parting Pressure (Pbhp) from downhole pressure recorder = psi no downhole

Part One - Calculation of Fracture Gradient (fg)

Calculated Fracture Gradient = 0.770 psi/ft.

where: fg = Pbhp / D (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1605  
D = depth used = 4629 Pbhp used = 3564

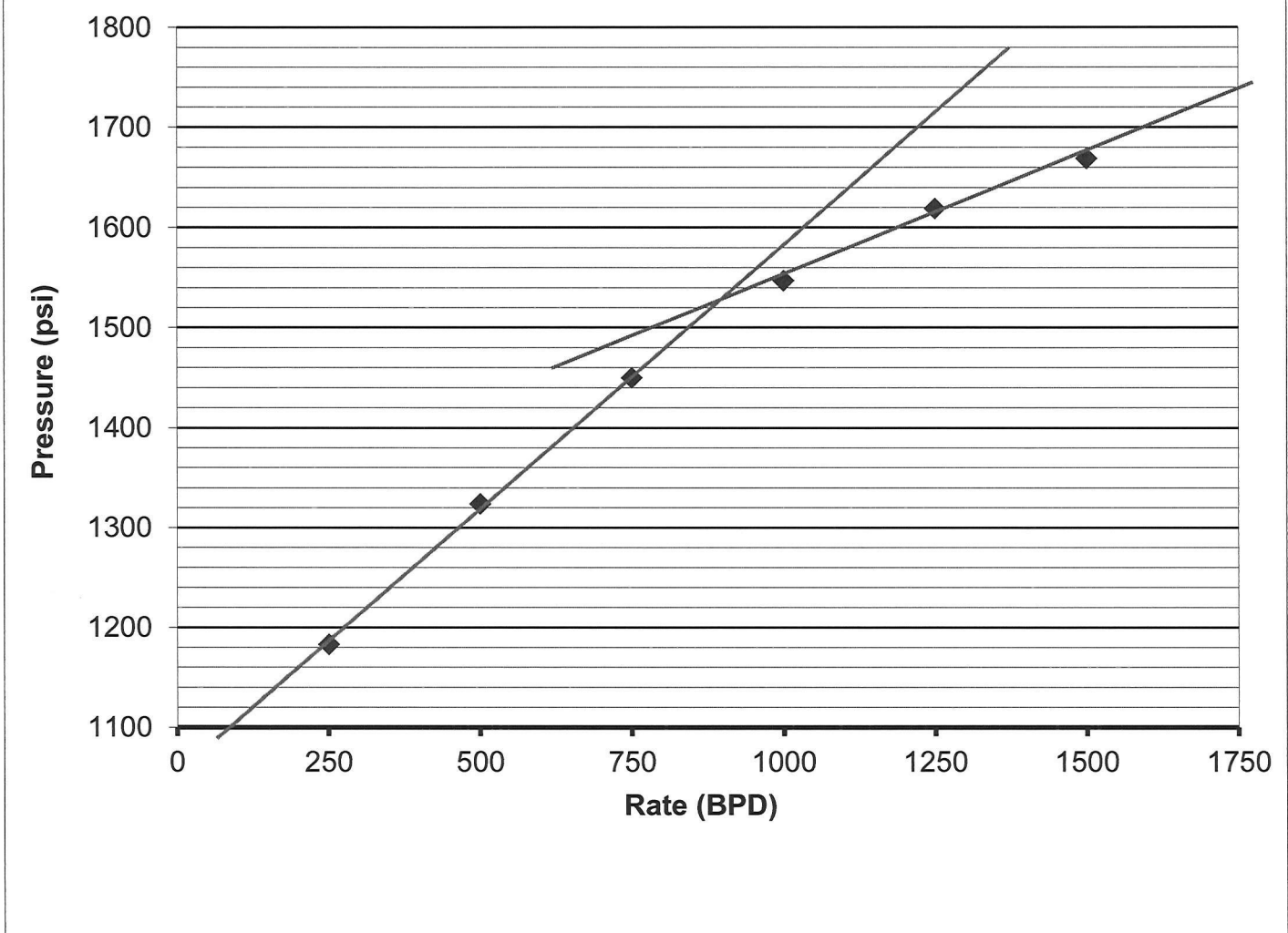
Calculated Bottom Hole Parting Pressure (Pbhp) = 3564 psi 3564.422

to calculate Bottom Hole Parting Pressure (Pbhp) = Formation Fracture Pressure (ISIP or Pfp) + ( 0.433 \* SG \* D )  
( Uses lesser of ISIP or Pfp ) Value used = 1530

Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

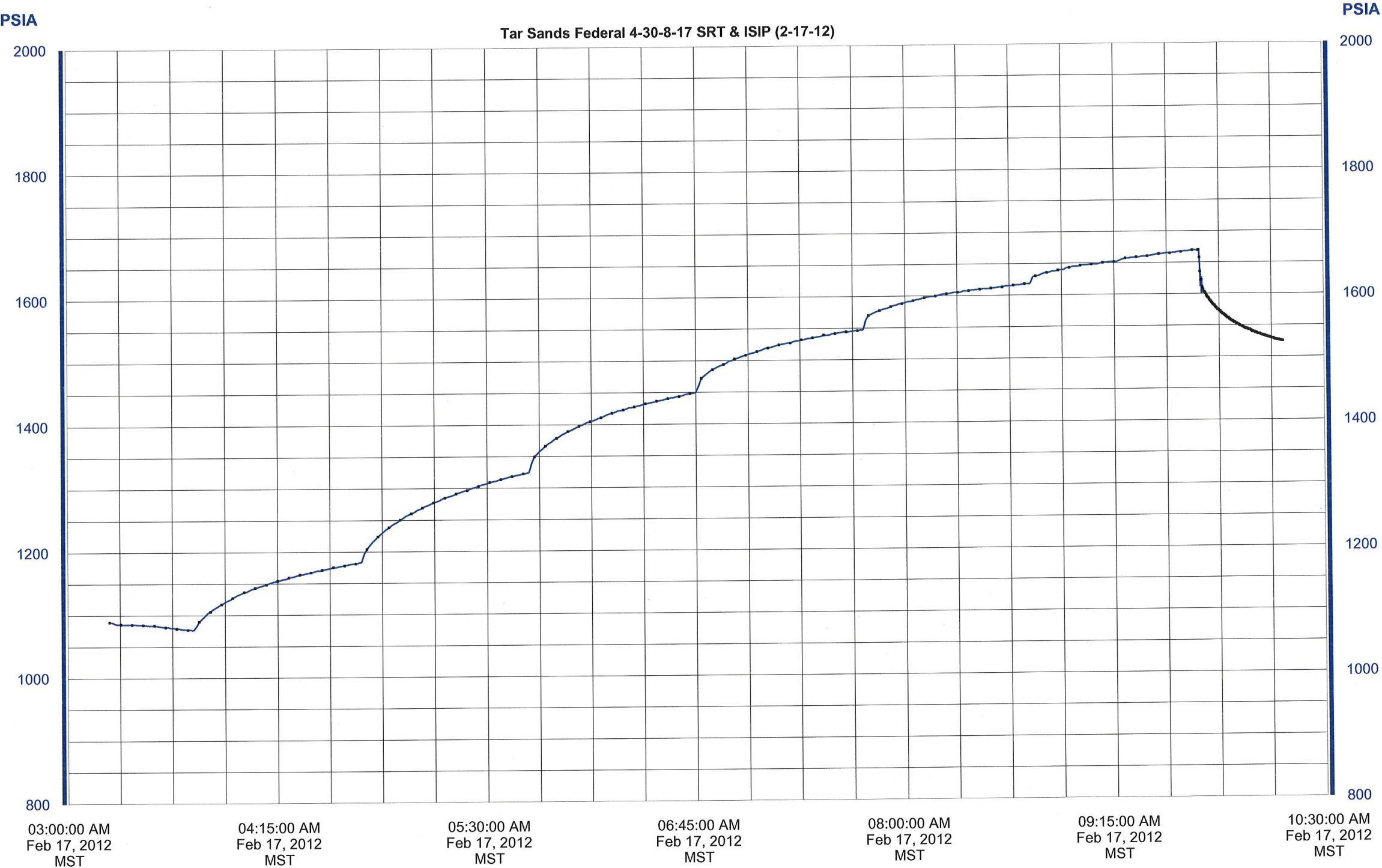
Maximum Allowable Injection Pressure (MAIP) = 1525 psi  
D = depth used = 4629 MAIP = [fg \* ( 0.433 \* SG )] \* D = 1529.908 (rounded down to nearest 5 psi)

Tar Sands Federal 4-30-8-17  
Greater Monument Butte Unit  
Step Rate Test  
February 17, 2012



		Step	Rate(bpd)	Pressure(psi)
Start Pressure:	1076 psi	1	250	1183
Instantaneous Shut In Pressure (ISIP):	1605 psi	2	500	1324
Top Perforation:	4629 feet	3	750	1450
Fracture pressure (Pfp):	1530 psi	4	1000	1547
FG:	0.770 psi/ft	5	1250	1619
		6	1500	1669





Tar Sands Federal 4-30-8-17 Rate Sheet (2-17-12)

Sundry Number : 23650 API Well Number : 43013316210000

Step # 1

Time:	3:50	3:55	4:00	4:05	4:10	4:15
Rate:	250.8	250.8	250.8	250.8	250.7	250.7
Time:	4:20	4:25	4:30	4:35	4:40	4:45
Rate:	250.7	250.6	250.6	250.5	250.5	250.5

Step # 2

Time:	4:50	4:55	5:00	5:05	5:10	5:15
Rate:	500.3	500.3	500.3	500.3	500.3	500.2
Time:	5:20	5:25	5:30	5:35	5:40	5:45
Rate:	500.2	500.2	500.2	500.1	500.1	500.1

Step # 3

Time:	5:50	5:55	6:00	6:05	6:10	6:15
Rate:	750.4	750.4	750.3	750.3	750.3	750.3
Time:	6:20	6:25	6:30	6:35	6:40	6:45
Rate:	750.2	750.2	750.2	750.2	750.2	750.1

Step # 4

Time:	6:50	6:55	7:00	7:05	7:10	7:15
Rate:	1000.6	1000.6	1000.6	1000.5	1000.5	1000.4
Time:	7:20	7:25	7:30	7:35	7:40	7:45
Rate:	1000.4	1000.4	1000.3	1000.3	1000.3	1000.3

Step # 5

Time:	7:50	7:55	8:00	8:05	8:10	8:15
Rate:	1250.5	1250.5	1250.5	1250.5	1250.4	1250.4
Time:	8:20	8:25	8:30	8:35	8:40	8:45
Rate:	1250.3	1250.3	1250.3	1250.2	1250.1	1250.1

Step # 6

Time:	8:50	8:55	9:00	9:05	9:10	9:15
Rate:	1500.6	1500.6	1500.6	1500.5	1500.5	1500.4
Time:	9:20	9:25	9:30	9:35	9:40	9:45
Rate:	1500.4	1500.4	1500.3	1500.3	1500.3	1500.3







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
Denver, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

JUL 02 2012

Ref: 8P-W-UIC

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Reed Durfey  
District Manager  
Newfield Production Company  
Route 3-Box 3630  
Myton, UT 84502

RECEIVED

JUL 11 2012

DIV. OF OIL, GAS & MINING

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

RE: Underground Injection Control (UIC)  
Authorization to Continue Injection  
EPA UIC Permit UT20847-09374  
Well: Tar Sands Federal 4-30-8-17  
NWNW Sec. 30-T8S-R17E  
Duchesne County, UT  
API No.: 43-013-31621

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 received the results of the March 2, 2012, Radioactive Tracer Survey (RTS) for the Tar Sands Federal 4-30-8-17 well. The EPA determined the test demonstrates the presence of adequate cement to prevent the upward migration of injection fluids from the injection zone at the Maximum Allowable Injection Pressure (MAIP) of 1,200 psig.

As of the date of this letter, the EPA hereby authorizes continued injection into the Tar Sands Federal 4-30-8-17 well under the terms and conditions of UIC Permit UT20847-09374.

You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a Step Rate Test (SRT) that measures the formation parting pressure and determines the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director in order to inject at pressures greater than the permitted MAIP during any test. A current copy of the EPA guidelines for running and interpreting SRTs will be sent upon request. Should the SRT result in approval of a higher MAIP, a subsequent RTS conducted at the higher MAIP is required.

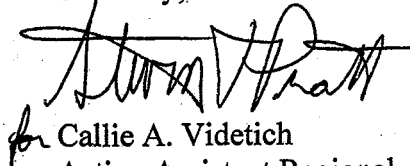
As of this approval, responsibility for permit compliance and enforcement is transferred to EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Sarah Roberts at the following address, referencing the well name and UIC Permit number on all correspondence:

Ms. Sarah Roberts  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

Or, you may reach Ms. Roberts by telephone at (303) 312-6211, or (800) 227-8927, extension 312-6211. Please remember that it is your responsibility to be aware of, and to comply with, all conditions of injection well Permit UT20847-09374.

If you have questions regarding the above action, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174.

Sincerely,



for Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:  
Irene Cuch, Chairman  
Ronald Wopsock, Vice-Chairman  
Richard Jenks Jr., Councilman  
Frances Poowegup, Councilwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
Denver, Colorado

# Tar Sands Federal 4-30-8-17

Spud Date: 5/18/96

POP: 6/26/96

GL: 5378' KB: 5391'

Initial Production: 224 BOPD,  
140 MCFPD, 8 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts (287.64')

DEPTH LANDED: 300' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf

## PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 166 jts (6255.57')

DEPTH LANDED: 6251.57' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 290 sk Hyfill mixed & 360 sxs thixotropic

CEMENT TOP AT: 78'

## TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 145 jts (4533.8')

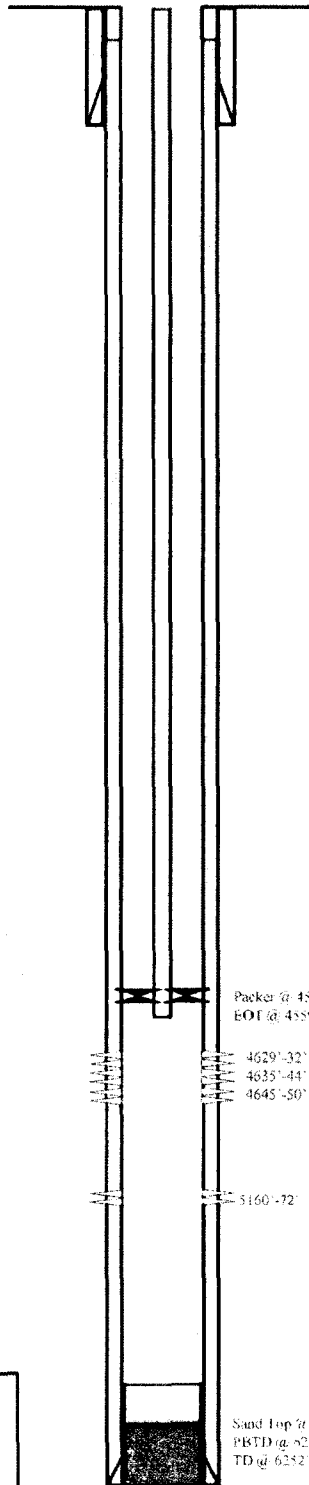
SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4530'

CE @ 4555.22'

TOTAL STRING LENGTH: EOT @ 4559' 12" KB

## Injection Wellbore Diagram



## FRAC JOB

6/19/96 5160'-5172'

### Frac D-1 sand as follows:

94,400# 20/40 sand in 470 bbls of Boragel. Breakdown @ 1612 psi. Treated @ avg rate 18.3 bpm w/avg press of 1670 psi. ISIP 1947 psi, 5-min 1877 psi. Start flowback on 16/64" ck after 5 min. Flowed for 3 hrs and died.

6/21/96 4629'-4650'

### Frac GB-4 sand as follows:

95,400# of 20/40 sand in 491 bbls of Boragel. Breakdown @ 1777 psi. Treated @ avg rate 15.2 bpm w/avg press of 1470 psi. ISIP 2166 psi, 5-min 1637 psi. Flowback after 5 min on 16/64" ck. Flowed for 5-1/2 hrs & died.

02/28/07

**Workover** -rod & Tubing Detail Updated

11-15-07

**Tubing Leak** Updated rod & tubing details.

10/19/09

**Tubing Leak** Updated rod & tubing details.

01/09/12

**Convert to Injection Well**

01/09/12

**Conversion MIT Finalized** - update the detail

## PERFORATION RECORD

Date	Interval	ISPF	Holes
6/18/96	5160'-5172'	4 JSPE	48 holes
6/20/96	4629'-4632'	4 JSPE	12 holes
6/20/96	4635'-4644'	4 JSPE	36 holes
6/20/96	4645'-4650'	4 JSPE	20 holes

**NEWFIELD**

**Tar Sands Federal 4-30-8-17**

559' FNL & 643' FWL

NW/4 Section 30-T8S-R17E

Duchesne Co, Utah

API #43-013-31621; Lease #UTU-74869

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74869
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> TAR SANDS FED 4-30
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0559 FNL 0643 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 30 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013316210000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/7/2016	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: 5 YR MIT	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. 5 YR MIT performed on the above listed well. On 12/07/2016 the casing was pressured up to 1061 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 1332 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09374		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto		<b>PHONE NUMBER</b> 435 646-4874
<b>SIGNATURE</b> N/A		<b>TITLE</b> Water Services Technician
<b>DATE</b> 12/8/2016		<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> December 13, 2016

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_

Date: 12 / 7 / 2016Test conducted by: Kim Giles

Others present: \_\_\_\_\_

5yr

Well Name: <u>Tar Sands 4-30-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>Lot 3</u> Sec: <u>30</u> T: <u>8</u> N: <u>19</u> R: <u>17</u> @/W County: <u>Duchenne</u> State: <u>UT</u>		
Operator: <u>Kim Giles</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: <u>1567</u>	PSIG

Is this a regularly scheduled test?

☒ Yes ☐ No

Initial test for permit?

☐ Yes ☐ No

Test after well rework?

☐ Yes ☐ No

Well injecting during test?

☐ Yes ☒ NoIf Yes, rate: 19 bpdPre-test casing/tubing annulus pressure: casing 0 / tubing 1332 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>				
Initial Pressure	<u>1332</u> psig		psig	psig
End of test pressure	<u>1332</u> psig		psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>				
0 minutes	<u>1061.2</u> psig		psig	psig
5 minutes	<u>1061.4</u> psig		psig	psig
10 minutes	<u>1061.0</u> psig		psig	psig
15 minutes	<u>1061.2</u> psig		psig	psig
20 minutes	<u>1061.2</u> psig		psig	psig
25 minutes	<u>1061.6</u> psig		psig	psig
30 minutes	<u>1061.4</u> psig		psig	psig
_____ minutes	psig		psig	psig
_____ minutes	psig		psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: Kim Giles



4-30-8-17 5yr MIT  
12/7/2016 9:01:52 AM

